

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

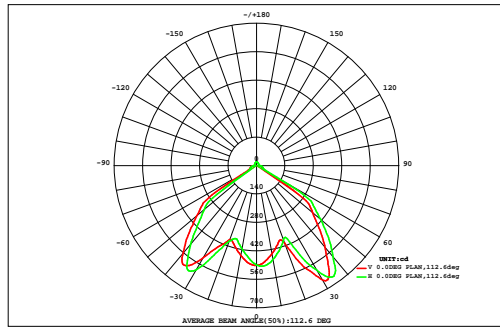
Maximum Intensity (Luminaire orientation as tested.)		447.6 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax At 50% of Imax At 90% of Imax	120.0V x 108.8H 110.3V x 98.5H 98.0V x 57.5H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	999.9 lumens per klm. 888.5 lumens per klm. 804.6 lumens per klm. 125.3 lumens per klm.
	Upward LOR Downward LOR	5.2 % 94.8 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: CREE1820N-15W	TYPE:CREE1820	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:20171016002
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:103.32lm/W	
MODE:15W OSRAM 350MA 4000K		Imax(cd)	668.7
NOMINAL POWER(W)	15W	AVAILABILITY(%)	88.8
RATED VOLTAGE(V)	230.0	Avai. FLUX(lm)	1327
NOMINAL FLUX(lm)	1494	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1494
TEST VOLTAGE(V)	230	q @50%(H,V)	98,110DEG

VERTICAL( DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.02	0.08	0.18	0.29	0.38	0.48	0.56	0.62	0.65	0.64	0.61	0.54	0.45	0.36	0.26	0.16	0.09	0.02	6.40	0.00
90	0.02	0.08	0.18	0.29	0.38	0.48	0.56	0.62	0.65	0.64	0.61	0.54	0.45	0.36	0.26	0.16	0.09	0.02	6.40	0.00
80	0.03	0.13	0.30	0.47	0.61	0.75	0.84	0.90	0.93	0.93	0.89	0.81	0.71	0.58	0.42	0.26	0.11	0.02	9.70	0.00
70	0.03	0.17	0.36	0.55	0.70	0.85	1.00	1.16	1.39	1.35	1.10	0.95	0.81	0.66	0.51	0.33	0.15	0.03	12.1	0.67
60	0.04	0.20	0.39	0.59	0.83	2.34	5.85	8.53	9.80	9.62	8.00	5.08	1.73	0.75	0.55	0.37	0.18	0.03	54.9	48.8
50	0.05	0.22	0.41	0.66	3.10	8.15	11.3	13.7	15.0	14.8	13.2	10.7	7.53	2.22	0.60	0.39	0.20	0.04	102	98.9
40	0.05	0.23	0.43	1.38	7.00	11.1	15.1	18.1	19.2	19.2	17.8	14.2	10.3	6.23	0.93	0.40	0.21	0.04	142	139
30	0.05	0.23	0.45	3.12	8.60	13.4	16.7	15.6	14.3	15.0	17.4	17.3	12.6	8.03	2.32	0.42	0.21	0.04	146	144
	0.05	0.24	0.47	4.32	9.61	14.5	14.0	11.9	12.9	12.6	12.8	16.6	14.3	8.89	3.55	0.43	0.21	0.04	137	136
	0.05	0.24	0.49	4.83	10.1	14.5	12.4	12.1	14.4	14.2	11.9	15.0	15.2	9.39	4.10	0.43	0.21	0.04	140	138
	0.05	0.24	0.49	4.69	9.99	14.4	12.4	11.8	13.5	13.4	11.8	15.0	15.0	9.29	3.96	0.42	0.21	0.04	137	135
	0.05	0.23	0.47	3.91	9.14	14.0	13.9	12.1	11.8	11.8	13.1	16.5	13.8	8.60	3.11	0.41	0.21	0.04	133	131
	0.05	0.23	0.44	2.41	7.91	12.3	15.7	15.5	14.6	15.4	17.2	16.2	11.7	7.47	1.60	0.39	0.20	0.04	139	137
-30	0.05	0.22	0.42	0.87	5.59	9.76	13.4	16.2	17.4	17.5	15.9	12.7	9.32	4.54	0.65	0.37	0.19	0.04	125	122
-40	0.04	0.21	0.40	0.61	1.50	5.90	9.55	11.5	12.4	12.3	11.2	9.06	4.77	1.03	0.56	0.36	0.18	0.03	81.6	77.4
-50	0.04	0.19	0.37	0.55	0.74	1.02	2.37	4.38	5.32	5.06	3.74	1.76	0.89	0.69	0.51	0.33	0.15	0.03	28.1	19.0
-60	0.03	0.16	0.33	0.50	0.65	0.78	0.89	0.97	1.01	1.00	0.94	0.85	0.74	0.61	0.46	0.28	0.12	0.02	10.3	0.00
-70	0.03	0.10	0.23	0.38	0.52	0.63	0.72	0.79	0.81	0.80	0.76	0.69	0.59	0.46	0.32	0.19	0.08	0.02	8.12	0.00
-80	0.02	0.07	0.12	0.18	0.24	0.29	0.33	0.36	0.37	0.37	0.34	0.31	0.26	0.22	0.16	0.11	0.06	0.02	3.85	0.00
-90	0.02	0.07	0.12	0.18	0.24	0.29	0.33	0.36	0.37	0.37	0.34	0.31	0.26	0.22	0.16	0.11	0.06	0.02	3.85	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL( DEG)	20	30	40	50	60	70	80	90			
F t	0.75	3.39	6.74	30.3	77.3	125	147	156	166	166	159	155	121	70.0	24.6	6.04	2.95	0.58	1416	---
F a	0.00	0.00	0.00	23.4	71.5	120	142	151	161	161	153	149	115	64.2	17.5	0.00	0.00	0.00	---	1327

one-half-peak spread: U:25.8,D:27.0 , L:32.1,R:32.6 NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K

ISOCANDELA DIAGRAM

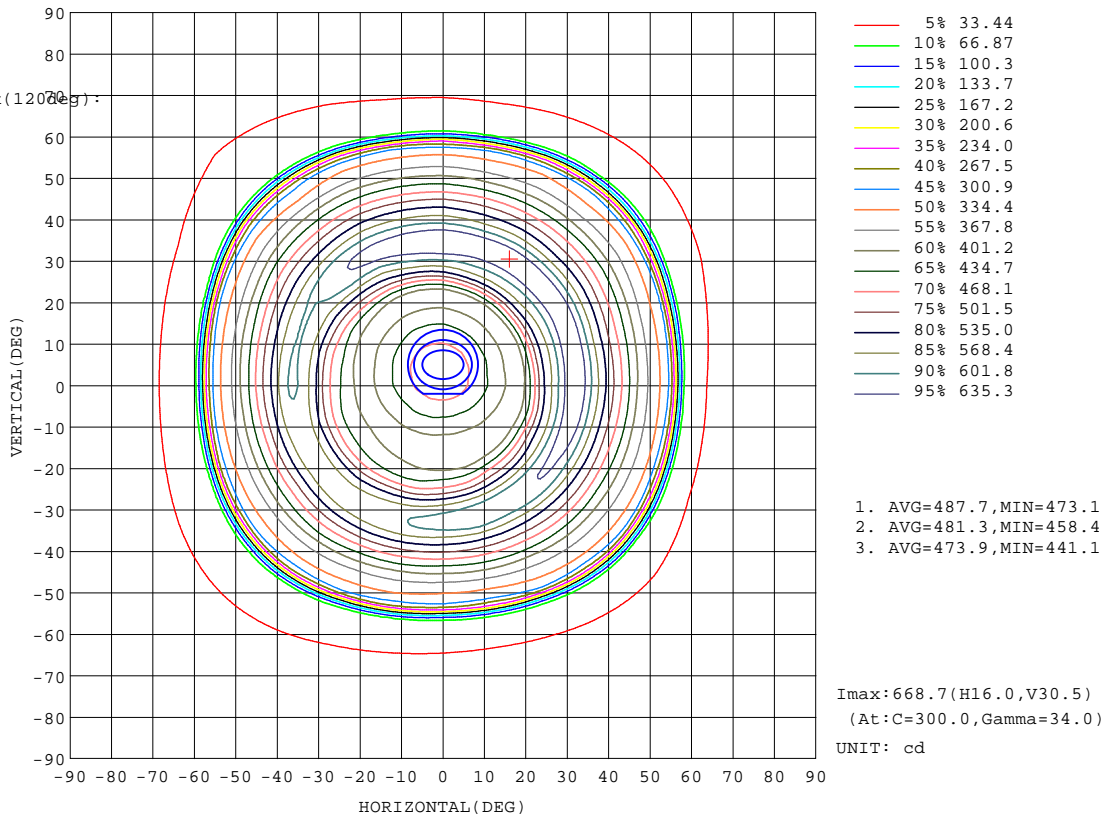
NAME: CREE1820N-15W	TYPE:CREE1820	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:20171016002
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

943.39 lm  
 %lum = 63.2%  
 %lamp = 63.1%

Conical surface Flux(120deg):

1330.5 lm  
 %lum = 89.1%  
 %lamp = 89.1%

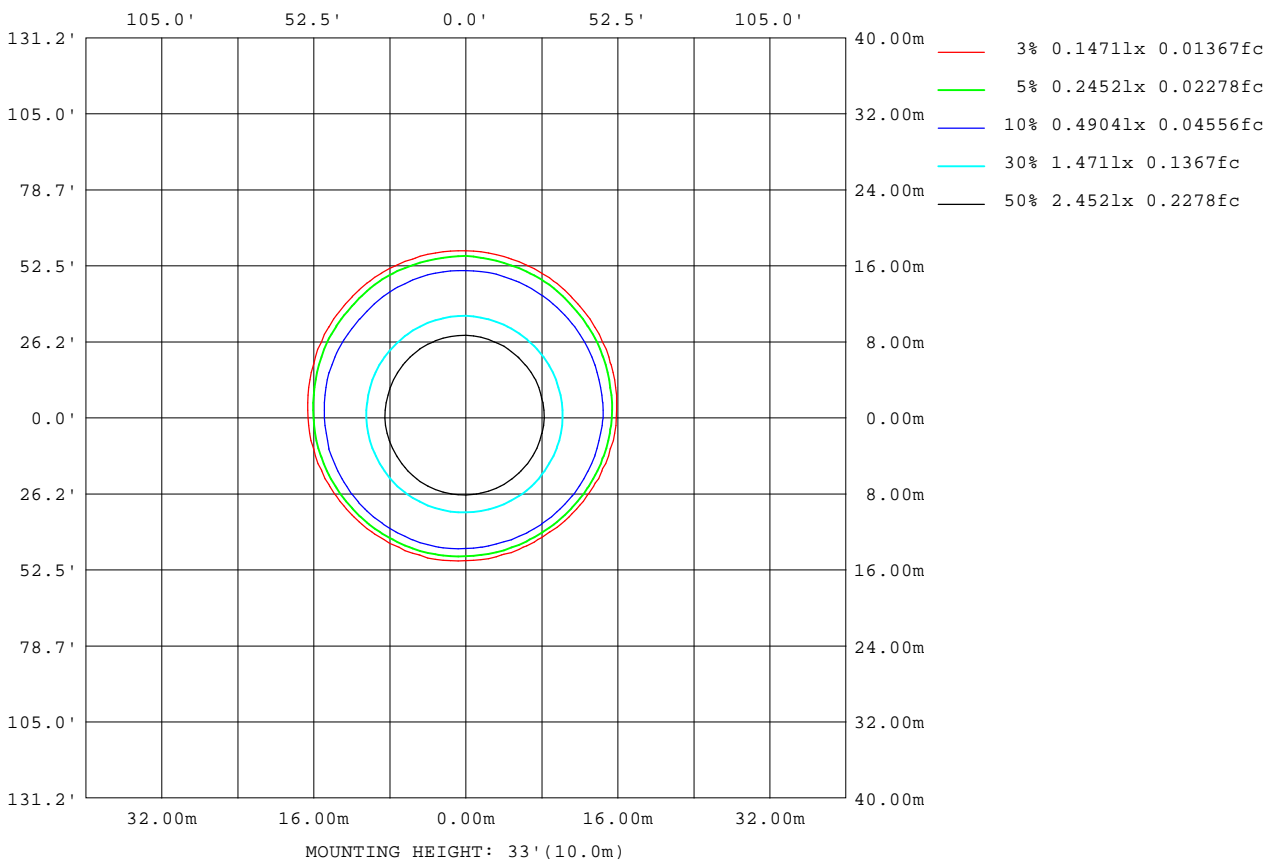


H(β) Range:-90 - 90DEG  
 H(β) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: CREE1820N-10W OSRAM 250MA 4000K

ISOLUX DIAGRAM

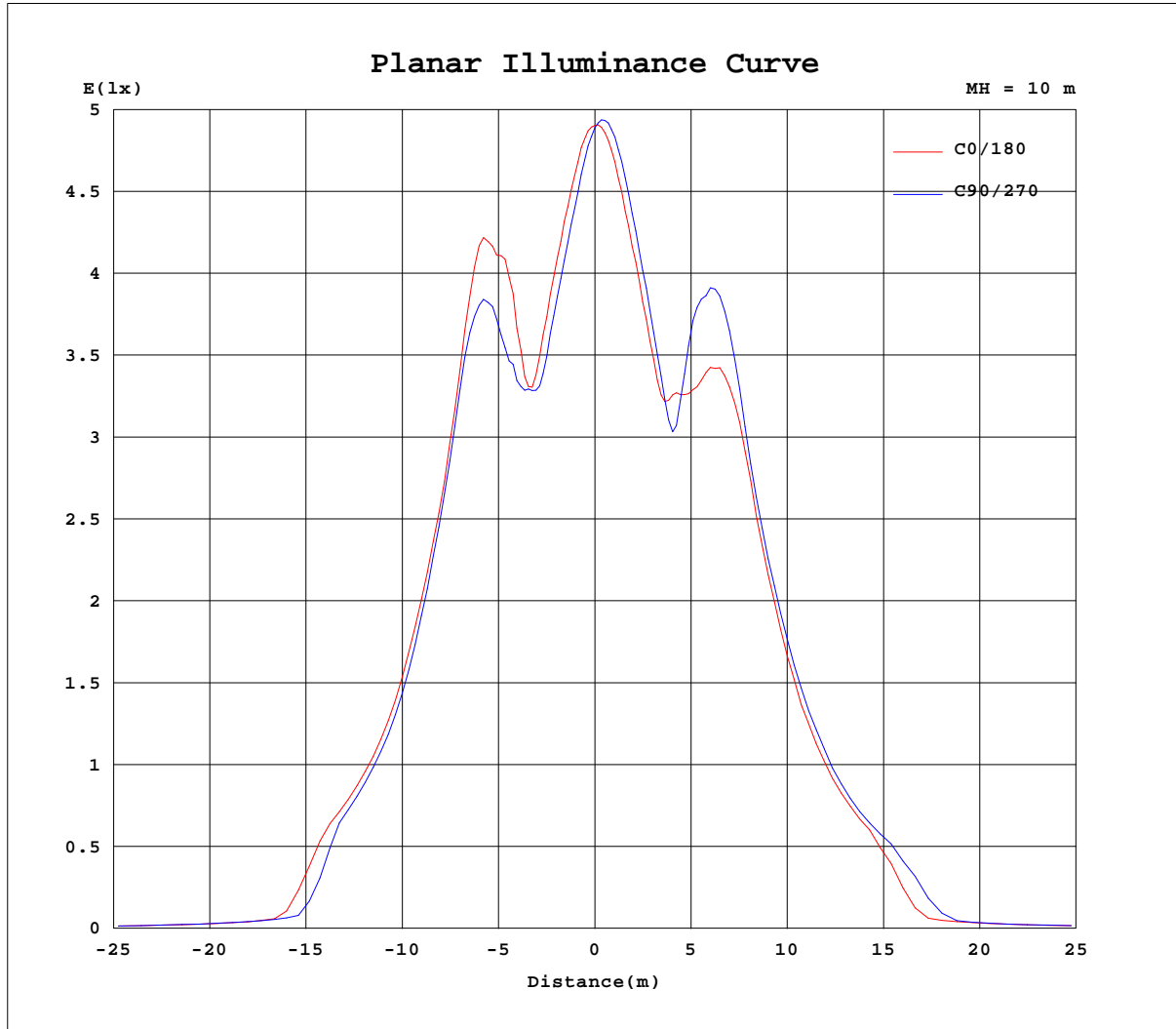
NAME: CREE1820N-15W	TYPE:CREE1820	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:20171016002
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K

Planar Illuminance Curve



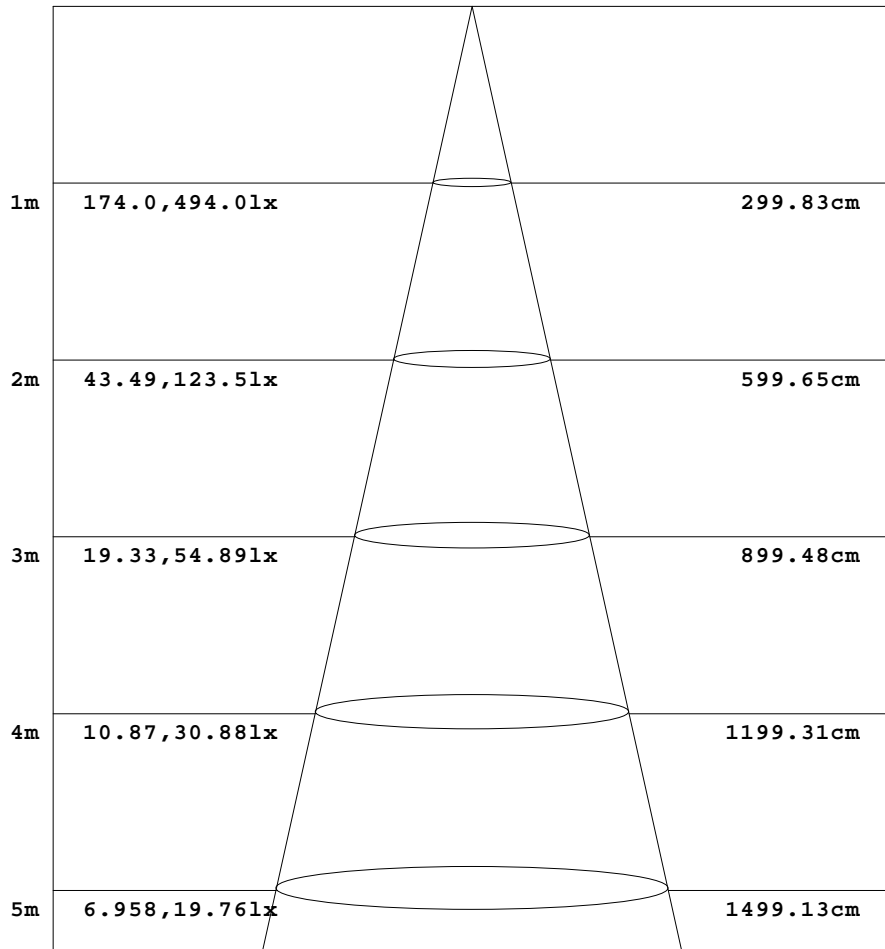
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 Remarks: CREE1820N-10W OSRAM 250MA 4000K

AAI Figure

NAME: CREE1820N-15W	TYPE:CREE1820	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:20171016002
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Flux out:1296 lm



Height                      Eavg, Emax                      Angle:112.59deg                      Diameter

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG  
H(β) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
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Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: CREE1820N-15W	TYPE:CREE1820	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:20171016002
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H( DEG) V( DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	8.60	9.29	10.0	10.7	11.1	11.5	11.8	12.3	12.7	13.1	13.3	13.6	14.1	14.8	15.7	16.7	17.4	17.9	20.0
-170	8.60	9.24	9.94	10.5	10.9	11.2	11.5	11.9	12.4	12.8	13.2	13.6	14.3	15.0	15.9	16.9	17.9	18.7	18.9
-160	8.60	9.18	9.80	10.3	10.6	10.8	11.1	11.4	11.9	12.4	12.9	13.3	13.8	14.4	15.0	15.6	16.1	16.6	16.7
-150	8.60	9.09	9.64	10.0	10.3	10.4	10.7	11.1	11.5	12.0	12.5	12.9	13.2	13.6	13.9	14.2	14.5	14.6	14.7
-140	8.60	8.99	9.44	9.77	9.95	10.1	10.4	10.7	11.1	11.5	11.9	12.2	12.6	12.8	13.0	13.2	13.3	13.4	13.4
-130	8.60	8.88	9.23	9.48	9.64	9.91	10.2	10.4	10.6	10.9	11.2	11.4	11.7	11.9	12.1	12.2	12.3	12.4	12.4
-120	8.60	8.75	9.00	9.18	9.38	9.63	9.84	10.0	10.2	10.4	10.6	10.7	10.9	11.0	11.1	11.2	11.3	11.3	11.3
-110	8.60	8.62	8.75	8.84	9.04	9.25	9.44	9.60	9.75	9.89	10.0	10.1	10.2	10.3	10.3	10.4	10.4	10.4	10.4
-100	8.60	8.49	8.49	8.49	8.62	8.75	8.88	9.01	9.12	9.23	9.33	9.40	9.47	9.53	9.59	9.63	9.66	9.67	9.68
-90	8.60	8.44	8.28	8.13	8.16	8.19	8.22	8.25	8.29	8.32	8.35	8.39	8.42	8.45	8.48	8.51	8.53	8.55	8.57
-80	8.60	9.20	9.83	10.5	11.3	12.2	12.9	15.1	16.9	18.8	19.4	20.1	20.5	20.8	21.0	21.1	21.1	21.0	20.9
-70	8.60	10.1	12.0	16.2	20.5	22.6	24.2	25.9	27.4	28.6	29.1	29.3	29.5	29.7	29.9	30.0	30.1	30.1	30.0
-60	8.60	11.0	16.6	22.2	25.1	27.8	29.4	30.1	30.9	31.8	32.9	33.9	34.9	35.8	36.7	37.5	38.2	38.5	38.2
-50	8.60	12.1	21.0	25.1	28.7	30.1	31.3	32.9	34.9	37.2	41.4	54.4	158	268	313	328	336	338	336
-40	8.60	13.1	22.9	27.6	30.0	31.6	33.9	36.9	42.9	135	302	343	374	410	442	472	492	504	506
-30	8.60	14.8	24.2	29.1	30.9	33.3	36.9	45.4	239	336	382	444	503	556	590	594	587	583	592
-20	8.60	16.4	25.3	29.6	31.6	34.9	40.4	181	335	394	467	541	583	559	491	441	413	401	396
-10	8.60	17.4	26.1	29.9	32.2	36.1	46.8	292	366	445	532	593	545	459	418	384	397	413	416
0	8.60	17.4	26.4	30.0	32.3	36.6	51.3	320	384	471	561	602	523	438	388	412	449	481	490
10	8.60	17.7	26.3	30.0	32.2	36.2	51.0	306	377	461	545	603	550	460	396	403	437	462	470
20	8.60	16.9	25.7	29.7	31.7	35.0	42.4	246	351	424	504	576	601	570	498	424	386	388	389
30	8.60	15.4	24.8	29.3	31.0	33.4	37.6	70.9	310	367	432	498	556	617	641	628	608	596	595
40	8.60	13.8	23.5	28.3	30.2	32.0	34.9	39.6	77.8	282	340	388	436	483	523	551	571	583	586
50	8.60	12.6	22.0	26.3	29.3	30.9	32.7	35.1	38.2	43.9	96.2	250	317	347	368	386	402	411	413
60	8.60	11.5	19.0	23.6	27.1	29.8	31.2	32.4	33.3	34.5	36.0	37.7	39.8	42.9	48.1	75.5	116	142	148
70	8.60	10.5	13.6	20.0	23.2	25.9	28.6	30.1	30.6	31.1	31.5	31.9	32.2	32.5	32.7	32.8	32.9	33.0	33.0
80	8.60	9.63	10.8	12.1	15.2	19.1	22.1	22.8	23.3	23.9	25.4	26.9	28.0	28.3	28.5	28.6	28.8	28.9	28.9
90	8.60	8.76	8.93	9.10	9.82	10.5	11.3	11.4	11.4	11.5	11.6	11.6	11.6	11.8	11.9	12.0	12.0	12.1	12.2
100	8.60	8.60	8.67	8.78	9.37	9.97	10.6	10.7	10.8	10.9	10.9	11.0	11.0	11.1	11.1	11.1	11.1	11.1	11.1
110	8.60	8.70	8.95	9.19	9.80	10.5	11.2	11.5	11.7	11.8	11.9	12.0	12.1	12.1	12.1	12.1	12.2	12.2	12.1
120	8.60	8.83	9.22	9.55	10.1	10.9	11.6	12.2	12.3	12.5	12.5	12.6	12.7	12.8	12.9	12.9	12.9	13.0	13.0
130	8.60	8.96	9.43	9.88	10.3	11.1	11.8	12.4	12.8	12.9	13.1	13.2	13.4	13.6	13.7	13.8	13.9	14.0	14.0
140	8.60	9.06	9.63	10.2	10.6	11.1	11.7	12.3	13.0	13.4	13.7	14.0	14.2	14.4	14.5	14.6	14.7	14.7	14.8
150	8.60	9.15	9.80	10.4	10.8	11.1	11.5	12.1	12.8	13.6	14.3	14.5	14.7	14.8	15.0	15.2	15.4	15.5	15.6
160	8.60	9.22	9.92	10.5	11.0	11.3	11.6	11.9	12.5	13.2	13.8	14.4	15.0	15.3	15.7	16.2	16.7	17.1	17.3
170	8.60	9.27	10.0	10.6	11.1	11.4	11.7	12.2	12.6	13.0	13.2	13.4	14.0	15.0	16.2	17.5	18.3	18.8	19.0
180	8.60	9.29	10.0	10.7	11.1	11.5	11.8	12.3	12.7	13.1	13.3	13.6	14.1	14.8	15.7	16.7	17.4	17.9	19.7

H(B) Range:-90 - 90DEG  
H(B) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: CREE1820N-15W	TYPE:CREE1820	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:20171016002
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H( DEG) V( DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	17.5	16.8	15.7	14.6	13.5	12.5	11.7	11.1	10.6	10.1	9.55	9.05	8.62	8.28	8.00	7.65	7.22	6.71
-170	18.4	17.8	16.7	15.3	13.8	12.5	11.6	11.1	10.6	10.1	9.53	9.04	8.61	8.28	8.00	7.65	7.22	6.71
-160	16.3	15.9	15.3	14.6	13.9	13.4	12.4	11.6	10.8	10.0	9.39	8.95	8.55	8.25	7.96	7.62	7.20	6.71
-150	14.4	14.1	13.8	13.5	13.1	12.7	12.4	12.0	11.2	10.4	9.60	8.88	8.44	8.17	7.90	7.57	7.17	6.71
-140	13.2	12.9	12.8	12.6	12.4	12.1	11.8	11.4	11.1	10.5	9.78	9.08	8.47	8.07	7.80	7.49	7.12	6.71
-130	12.2	12.0	11.9	11.7	11.5	11.3	11.0	10.8	10.5	10.3	9.84	9.20	8.60	7.98	7.67	7.39	7.07	6.71
-120	11.2	11.0	10.9	10.7	10.6	10.5	10.3	10.2	10.0	9.87	9.72	9.23	8.61	7.97	7.50	7.26	7.00	6.71
-110	10.3	10.2	10.0	9.98	9.92	9.84	9.77	9.69	9.61	9.51	9.39	9.12	8.48	7.85	7.30	7.11	6.91	6.71
-100	9.58	9.48	9.37	9.34	9.30	9.25	9.20	9.15	9.09	9.01	8.94	8.82	8.22	7.62	7.04	6.93	6.82	6.71
-90	8.49	8.40	8.32	8.32	8.33	8.33	8.34	8.34	8.34	8.33	8.32	8.31	7.80	7.28	6.76	6.75	6.73	6.71
-80	20.7	20.4	20.0	19.6	19.2	18.3	17.5	16.4	14.9	13.7	12.5	11.6	10.3	9.10	7.88	7.21	6.72	6.71
-70	29.8	29.5	29.2	28.9	28.6	28.3	27.9	27.5	26.5	25.0	23.1	21.1	18.9	15.4	11.2	9.13	7.37	6.71
-60	37.9	37.2	36.2	35.1	34.0	32.9	31.8	30.8	29.9	29.0	28.2	27.0	24.3	20.7	17.3	11.4	8.25	6.71
-50	333	325	316	293	205	83.4	41.9	36.6	34.2	32.1	30.3	28.5	27.0	24.7	20.4	15.3	9.15	6.71
-40	498	481	458	428	391	362	333	259	54.9	36.8	33.1	30.2	28.0	26.4	23.3	18.0	9.96	6.71
-30	607	624	622	581	529	477	417	367	326	138	37.2	32.3	29.2	27.2	25.3	19.4	10.8	6.71
-20	404	447	513	588	638	587	512	438	373	323	81.7	34.7	30.6	27.9	26.1	20.5	11.4	6.71
-10	409	391	389	466	570	650	583	496	414	350	225	37.7	31.7	28.4	26.4	21.3	11.9	6.71
0	474	439	402	406	549	650	621	526	435	361	284	40.0	32.2	28.7	26.5	21.6	12.1	6.71
10	453	422	385	456	570	658	598	507	424	355	257	39.7	32.6	29.1	26.9	21.8	12.2	6.71
20	380	411	512	584	652	631	542	464	389	333	147	37.1	32.3	29.2	27.1	21.5	12.0	6.71
30	610	634	664	647	580	519	460	398	349	253	43.9	35.2	31.7	29.1	27.0	20.8	11.6	6.71
40	573	553	527	493	451	406	363	328	223	44.8	36.0	32.9	30.6	28.8	25.9	19.8	10.9	6.71
50	404	391	373	356	338	307	183	51.4	37.9	34.8	32.6	30.8	29.4	28.2	23.7	18.0	10.3	6.71
60	131	97.7	55.9	43.8	39.5	37.0	35.3	33.7	32.3	31.0	30.0	29.1	28.0	25.1	21.1	14.7	9.58	6.71
70	32.8	32.5	32.2	31.8	31.3	30.8	30.2	29.6	29.0	28.5	27.7	25.9	23.3	20.8	16.6	12.0	8.76	6.71
80	28.7	28.5	28.2	27.6	26.9	26.1	25.1	23.9	22.7	21.6	20.3	18.4	15.8	13.8	12.4	10.1	8.01	6.71
90	12.2	12.1	12.1	12.0	11.8	11.6	11.4	11.2	11.0	10.8	10.6	10.4	10.3	10.3	10.2	9.03	7.87	6.71
100	11.2	11.3	11.4	11.4	11.3	11.3	11.2	11.2	11.1	11.0	11.0	10.9	10.8	10.7	10.5	9.24	7.96	6.71
110	12.2	12.3	12.4	12.3	12.3	12.2	12.1	12.0	11.9	11.8	11.7	11.5	11.4	11.2	10.8	9.36	8.01	6.71
120	13.1	13.2	13.2	13.1	13.0	12.9	12.8	12.7	12.5	12.4	12.2	12.0	11.8	11.6	10.8	9.38	8.02	6.71
130	14.1	14.2	14.2	14.1	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.4	12.2	11.9	10.7	9.31	7.98	6.71
140	14.9	15.0	15.0	14.9	14.8	14.6	14.3	14.0	13.7	13.4	13.1	12.7	12.5	11.6	10.4	9.13	7.90	6.71
150	15.8	15.8	15.6	15.4	15.2	15.1	14.9	14.7	14.3	13.9	13.4	13.0	12.1	11.0	9.94	8.86	7.77	6.71
160	17.5	17.3	16.9	16.4	15.9	15.5	15.2	15.0	14.7	14.3	13.3	12.1	11.1	10.2	9.38	8.51	7.62	6.71
170	19.3	18.9	18.4	17.5	16.7	16.1	15.2	14.3	13.4	12.5	11.5	10.7	9.94	9.29	8.72	8.10	7.43	6.71
180	17.5	16.8	15.7	14.6	13.5	12.5	11.7	11.1	10.6	10.1	9.55	9.05	8.62	8.28	8.00	7.65	7.22	6.71

H<sub>(h)</sub> Range:-90 - 90DEG  
H<sub>(h)</sub> Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K



Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	490.4	491.2	490.4	490.4	489.2	489.3	489.1	489.2	488.4	488.3
3.0	484.2	481.2	478.0	475.0	472.8	472.4	471.2	472.7	473.9	476.5
6.0	467.6	462.2	457.5	453.7	449.5	449.1	447.0	450.7	452.1	456.9
9.0	448.4	441.0	435.2	430.2	425.7	424.3	423.7	426.9	429.8	435.4
12.0	425.1	419.2	413.0	408.6	402.3	400.7	399.7	403.6	407.3	414.0
15.0	402.4	396.0	389.1	384.1	378.0	376.2	376.1	379.6	383.9	390.5
18.0	384.4	386.2	389.1	387.3	385.7	380.8	382.0	381.6	382.6	382.4
21.0	434.0	425.9	433.8	426.3	422.3	410.1	406.9	403.5	406.6	408.1
24.0	521.6	514.7	510.3	497.3	488.4	468.2	454.7	439.3	431.1	426.3
27.0	581.4	574.7	570.6	565.9	556.3	542.2	526.1	502.3	491.2	473.4
30.0	649.7	639.5	632.2	622.5	617.8	607.0	591.6	570.3	557.3	534.8
33.0	654.2	644.8	633.3	632.1	624.7	623.1	616.9	602.3	591.2	578.1
36.0	598.1	586.2	579.2	573.4	570.3	579.0	579.0	589.0	592.3	584.2
39.0	540.4	529.3	519.8	518.3	514.9	519.4	522.5	531.3	538.7	544.5
42.0	489.8	475.6	468.5	465.6	461.5	463.5	465.8	472.6	480.5	492.0
45.0	435.4	426.3	413.7	414.5	406.5	409.0	407.4	416.1	422.9	438.3
48.0	385.6	378.9	371.6	368.1	363.2	359.8	361.0	367.4	371.2	382.8
51.0	350.4	344.4	338.3	333.3	329.5	321.1	324.4	334.2	337.4	344.1
54.0	316.2	285.6	275.5	252.5	232.6	232.0	242.2	274.0	291.0	293.3
57.0	145.7	96.15	59.27	50.49	46.14	48.30	50.34	63.72	78.40	117.1
60.0	39.99	37.69	37.40	37.15	37.05	37.72	38.25	39.35	40.35	42.47
63.0	34.15	33.42	34.32	34.07	33.97	34.21	34.78	35.38	35.88	36.80
66.0	31.32	30.88	31.87	31.74	31.60	31.75	32.28	32.81	33.27	34.06
69.0	29.23	28.94	30.08	29.97	29.86	29.99	30.43	30.84	31.25	31.90
72.0	27.68	27.47	28.74	28.66	28.55	28.65	29.12	29.44	29.78	30.30
75.0	26.55	26.35	27.64	27.49	27.18	27.26	27.65	28.20	28.58	29.11
78.0	24.67	23.82	24.29	23.75	23.18	23.25	23.65	24.40	25.03	26.15
81.0	20.08	19.46	20.17	19.71	19.07	19.12	19.45	20.24	21.00	22.04
84.0	14.90	13.49	13.06	12.45	11.87	11.81	12.02	12.38	12.77	14.40
87.0	9.050	8.376	9.103	8.666	8.204	8.189	8.428	8.726	9.047	9.637
90.0	6.711	6.762	8.314	8.341	8.334	8.316	8.573	8.511	8.419	8.321
93.0	7.035	7.087	8.654	8.686	8.689	8.691	8.958	8.916	8.819	8.736
96.0	7.325	7.377	8.949	8.991	9.009	9.031	9.293	9.271	9.188	9.106
99.0	7.570	7.641	9.199	9.260	9.289	9.325	9.588	9.570	9.508	9.440
102.0	7.805	7.861	9.429	9.490	9.509	9.550	9.839	9.840	9.788	9.730
105.0	8.000	8.066	9.619	9.670	9.714	9.755	10.06	10.07	10.02	9.980
108.0	8.174	8.246	9.804	9.865	9.899	9.960	10.26	10.28	10.24	10.21
111.0	8.340	8.416	9.984	10.06	10.11	10.16	10.48	10.50	10.47	10.43
114.0	8.539	8.626	10.21	10.29	10.34	10.41	10.73	10.75	10.72	10.67
117.0	8.779	8.876	10.47	10.56	10.61	10.69	11.01	11.03	11.00	10.94
120.0	9.049	9.160	10.76	10.85	10.91	10.99	11.31	11.33	11.30	11.24
123.0	9.334	9.441	11.06	11.16	11.23	11.30	11.63	11.65	11.61	11.56
126.0	9.658	9.770	11.40	11.49	11.56	11.64	11.97	11.98	11.95	11.90
129.0	9.983	10.10	11.72	11.83	11.88	11.96	12.30	12.31	12.29	12.24
132.0	10.31	10.42	12.04	12.14	12.21	12.29	12.63	12.64	12.63	12.60
135.0	10.61	10.72	12.32	12.43	12.50	12.59	12.92	12.94	12.93	12.91
138.0	10.90	11.01	12.61	12.71	12.77	12.86	13.19	13.22	13.21	13.19
141.0	11.21	11.32	12.93	13.01	13.07	13.16	13.48	13.51	13.50	13.48
144.0	11.57	11.68	13.29	13.39	13.45	13.52	13.85	13.88	13.87	13.83
147.0	12.00	12.10	13.72	13.79	13.86	13.91	14.25	14.27	14.26	14.22
150.0	12.47	12.57	14.18	14.26	14.32	14.37	14.69	14.70	14.70	14.64
153.0	13.06	13.15	14.75	14.82	14.87	14.91	15.22	15.24	15.19	15.15
156.0	13.69	13.78	15.39	15.44	15.49	15.52	15.82	15.81	15.77	15.70
159.0	14.36	14.43	16.03	16.10	16.15	16.18	16.47	16.47	16.40	16.32
162.0	15.02	15.10	16.72	16.79	16.84	16.88	17.16	17.15	17.09	17.01
165.0	15.71	15.81	17.45	17.53	17.60	17.63	17.93	17.91	17.85	17.71
168.0	16.42	16.53	18.13	18.20	18.25	18.31	18.60	18.59	18.54	18.45
171.0	16.97	17.06	18.64	18.72	18.75	18.80	19.10	19.11	19.07	19.00
174.0	17.38	17.48	19.03	19.14	19.17	19.23	19.53	19.56	19.51	19.48
177.0	17.70	17.79	19.34	19.41	19.45	19.52	19.82	19.86	19.84	19.82
180.0	17.93	17.97	19.50	19.56	19.58	19.63	19.96	20.00	20.01	20.00
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	488.4	488.0	490.4	491.2	490.4	490.4	489.2	489.3	489.1	489.2
3.0	478.3	482.2	488.0	489.6	493.2	494.7	495.8	496.0	495.5	493.8
6.0	460.9	466.8	475.8	478.4	485.1	487.8	491.0	491.4	491.3	488.3
9.0	439.8	446.7	454.8	460.4	468.2	472.9	476.1	476.0	475.8	471.8
12.0	417.7	425.5	434.9	438.6	447.5	451.7	456.5	455.3	455.1	450.2
15.0	396.9	404.5	412.5	416.1	425.5	430.2	435.0	434.6	433.7	427.4
18.0	384.3	384.8	389.2	393.4	402.0	406.7	410.8	409.6	407.7	401.3
21.0	410.8	400.7	396.5	388.9	384.8	386.2	387.2	384.9	381.7	378.7
24.0	427.1	424.8	427.7	424.2	415.5	409.5	403.7	408.6	423.4	448.8
27.0	464.9	460.6	465.2	461.2	466.4	478.3	486.9	504.0	524.7	551.0
30.0	527.6	516.0	522.8	517.7	526.0	548.1	557.0	584.2	595.1	606.9

H(h) Range:-90 - 90DEG  
 H(h) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XW  
 Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks: CREE1820N-10W OSRAM 250MA 4000K

Photometric Data Table [cd]

33.0	573.9	572.3	580.7	575.9	583.4	612.9	622.2	642.0	654.8	656.5
36.0	583.4	592.3	605.9	603.2	602.2	632.3	646.3	650.3	656.4	654.6
39.0	546.3	566.2	583.3	581.5	589.7	604.3	613.8	611.6	604.7	590.4
42.0	495.6	512.4	526.4	531.3	540.3	547.1	555.6	555.0	550.3	537.3
45.0	442.2	454.6	471.4	479.0	493.0	496.4	505.7	503.0	500.7	486.4
48.0	388.3	404.7	417.2	425.9	441.6	441.1	450.5	446.7	444.0	433.8
51.0	349.3	356.4	367.9	376.4	390.2	390.5	399.5	397.1	393.5	386.4
54.0	314.5	323.3	329.7	336.1	343.2	338.5	352.0	353.5	352.8	345.7
57.0	156.4	207.6	246.2	276.9	286.7	295.2	318.4	319.3	320.8	312.6
60.0	44.36	47.01	51.32	65.48	105.3	132.1	156.4	153.8	148.1	126.0
63.0	37.59	38.45	38.77	39.47	43.10	44.46	43.20	42.22	41.89	40.51
66.0	34.64	35.34	35.44	35.68	37.69	37.66	37.13	36.39	36.16	35.71
69.0	32.38	32.93	33.13	33.10	34.83	34.66	34.57	33.85	33.77	33.23
72.0	30.71	31.16	31.26	31.37	33.00	32.81	32.54	32.09	31.99	31.53
75.0	29.52	29.89	30.04	30.10	31.71	31.46	31.25	30.81	30.68	30.31
78.0	27.02	28.06	28.61	29.02	30.65	30.02	30.29	29.84	29.61	29.39
81.0	22.92	24.08	24.95	25.72	27.71	27.06	28.40	27.97	27.83	27.48
84.0	16.91	19.61	21.12	21.87	23.48	22.29	23.70	23.89	23.84	23.25
87.0	10.19	11.04	11.94	12.73	15.93	16.69	17.17	18.05	18.36	17.46
90.0	8.219	8.127	8.595	9.103	11.26	11.53	11.65	11.98	12.19	12.11
93.0	8.619	8.546	8.947	8.849	10.29	10.29	10.17	10.06	10.04	10.37
96.0	9.013	8.936	9.427	9.313	10.78	10.72	10.63	10.54	10.53	10.85
99.0	9.339	9.275	9.891	9.773	11.23	11.17	11.07	10.99	10.98	11.29
102.0	9.648	9.575	10.31	10.19	11.64	11.57	11.47	11.39	11.37	11.67
105.0	9.889	9.835	10.68	10.56	12.00	11.91	11.82	11.74	11.71	12.00
108.0	10.13	10.07	10.95	10.85	12.30	12.22	12.11	12.01	11.99	12.27
111.0	10.35	10.28	11.20	11.09	12.53	12.45	12.36	12.27	12.24	12.52
114.0	10.59	10.51	11.40	11.29	12.74	12.65	12.58	12.49	12.47	12.75
117.0	10.85	10.78	11.61	11.50	12.96	12.86	12.80	12.73	12.72	13.00
120.0	11.16	11.07	11.82	11.72	13.18	13.10	13.04	12.98	12.98	13.28
123.0	11.47	11.37	12.05	11.96	13.43	13.35	13.30	13.27	13.25	13.56
126.0	11.83	11.71	12.36	12.24	13.72	13.64	13.61	13.58	13.58	13.89
129.0	12.17	12.06	12.66	12.57	14.03	13.96	13.93	13.90	13.91	14.22
132.0	12.52	12.42	12.90	12.82	14.30	14.24	14.23	14.21	14.22	14.52
135.0	12.85	12.76	13.10	13.03	14.53	14.48	14.47	14.47	14.49	14.79
138.0	13.13	13.06	13.24	13.18	14.68	14.64	14.66	14.65	14.68	14.98
141.0	13.42	13.33	13.35	13.28	14.81	14.77	14.78	14.76	14.80	15.11
144.0	13.75	13.66	13.51	13.45	14.94	14.91	14.92	14.91	14.94	15.28
147.0	14.15	14.05	13.77	13.71	15.20	15.17	15.19	15.19	15.22	15.58
150.0	14.56	14.48	14.07	14.00	15.51	15.50	15.52	15.53	15.57	15.93
153.0	15.06	14.96	14.45	14.40	15.89	15.88	15.92	15.94	15.99	16.37
156.0	15.60	15.50	14.94	14.87	16.37	16.35	16.38	16.43	16.49	16.88
159.0	16.22	16.10	15.50	15.42	16.91	16.91	16.93	16.99	17.06	17.46
162.0	16.89	16.79	16.14	16.03	17.54	17.52	17.56	17.61	17.70	18.09
165.0	17.61	17.47	16.69	16.62	18.11	18.10	18.15	18.19	18.26	18.65
168.0	18.33	18.20	17.13	17.07	18.60	18.57	18.63	18.68	18.73	19.11
171.0	18.90	18.81	17.52	17.45	18.98	18.97	19.02	19.06	19.11	19.48
174.0	19.38	19.30	17.79	19.26	19.29	19.28	19.32	19.34	19.40	19.73
177.0	19.74	19.69	17.94	19.42	19.47	19.47	19.52	19.54	19.59	19.92
180.0	19.97	19.95	17.97	19.40	19.51	19.53	19.59	19.60	19.66	19.99
G/C	300.0	315.0	330.0	345.0						
0.0	488.4	488.3	488.4	488.0						
3.0	492.4	489.7	487.1	483.7						
6.0	484.9	479.8	476.2	469.6						
9.0	468.7	460.8	455.9	448.7						
12.0	446.6	439.3	434.7	427.4						
15.0	422.3	414.9	411.1	403.2						
18.0	396.3	389.1	383.9	380.1						
21.0	385.2	400.8	410.0	427.9						
24.0	470.2	496.7	507.0	521.2						
27.0	563.2	570.0	569.4	574.1						
30.0	611.7	623.5	625.3	639.2						
33.0	663.3	666.1	660.3	658.9						
36.0	644.8	628.6	620.5	604.1						
39.0	578.1	563.6	558.4	544.4						
42.0	526.5	510.9	504.7	491.6						
45.0	474.1	462.2	453.9	440.3						
48.0	424.3	409.7	404.9	391.1						
51.0	375.5	364.5	365.4	353.8						
54.0	342.4	329.5	329.0	318.1						
57.0	283.1	258.2	235.4	174.1						
60.0	97.69	60.38	47.44	43.68						
63.0	39.51	38.36	37.28	36.43						
66.0	35.42	34.94	34.36	33.73						

H(h) Range:-90 - 90DEG  
H(h) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K

Photometric Data Table [cd]

69.0	33.03	32.52	32.28	31.69
72.0	31.19	30.80	30.55	30.21
75.0	29.91	29.38	29.39	29.03
78.0	29.00	28.42	28.14	27.68
81.0	26.59	25.63	24.63	23.63
84.0	22.28	21.33	20.66	19.14
87.0	16.34	14.67	13.86	12.97
90.0	11.64	10.97	10.40	10.19
93.0	10.42	10.48	10.55	10.66
96.0	10.89	10.94	11.03	11.10
99.0	11.31	11.36	11.44	11.51
102.0	11.69	11.73	11.78	11.85
105.0	12.02	12.03	12.08	12.14
108.0	12.29	12.30	12.35	12.39
111.0	12.53	12.54	12.59	12.64
114.0	12.78	12.78	12.86	12.90
117.0	13.03	13.05	13.11	13.17
120.0	13.31	13.35	13.41	13.47
123.0	13.61	13.66	13.72	13.79
126.0	13.95	14.00	14.07	14.14
129.0	14.28	14.33	14.41	14.47
132.0	14.58	14.63	14.70	14.76
135.0	14.84	14.88	14.94	14.99
138.0	15.03	15.07	15.12	15.16
141.0	15.17	15.21	15.27	15.32
144.0	15.35	15.42	15.49	15.55
147.0	15.65	15.74	15.82	15.87
150.0	16.02	16.10	16.17	16.26
153.0	16.46	16.55	16.65	16.73
156.0	16.98	17.08	17.17	17.27
159.0	17.56	17.68	17.78	17.86
162.0	18.17	18.28	18.37	18.44
165.0	18.72	18.79	18.87	18.94
168.0	19.17	19.22	19.31	19.33
171.0	19.52	19.54	19.60	19.60
174.0	19.78	19.79	19.82	19.81
177.0	19.96	19.95	19.96	19.93
180.0	20.01	20.00	19.98	19.94

H(h) Range:-90 - 90DEG  
H(h) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:XW  
Test Date:2017-10-16

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:9.000m [K=1.0000]  
Remarks: CREE1820N-10W OSRAM 250MA 4000K