

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

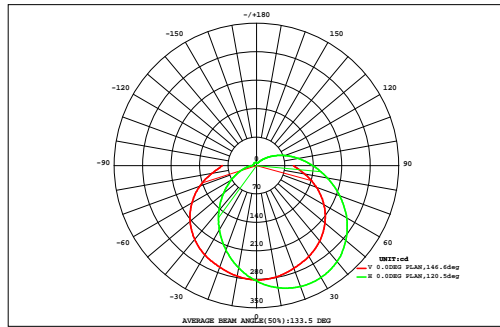
Maximum Intensity (Luminaire orientation as tested.)		147.6 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax At 50% of Imax At 90% of Imax	204.2V x 180.0H 120.5V x 139.8H 48.8V x 58.4H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	641.3 lumens per klm. 618.1 lumens per klm. 407.9 lumens per klm. 91.4 lumens per klm.
	Upward LOR Downward LOR	11.4 % 52.7 %
Luminaire Efficiency(Light Output Ratio)		64.1 %

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XW
Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.4V I:0.0605A P:13.25W PF:0.9499 Lamp Flux:2160x1 lm		
NAME: wallpack	TYPE:LED lamp	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20190702001
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:104.57lm/W	
MODEL	4000K Ra80 HL3030	Imax(cd)	318.7
NOMINAL POWER(W)	15	AVAILABILITY(%)	61.8
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	1335
NOMINAL FLUX(lm)	2160	LOR(%)	64.1
LAMPS INSIDE	1	TOTAL FLUX(lm)	1385
TEST VOLTAGE(V)	230	q @50%(H,V)	140,120DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.25	0.84	1.59	2.42	3.24	3.94	4.46	4.74	4.82	4.83	4.77	4.49	3.97	3.26	2.44	1.60	0.85	0.26		
80	0.25	0.91	1.78	2.78	3.80	4.71	5.42	5.85	6.02	6.03	5.89	5.46	4.74	3.82	2.80	1.78	0.91	0.27	63.2	63.2
70	0.26	0.97	1.95	3.12	4.32	5.43	6.33	6.91	7.19	7.21	6.95	6.37	5.46	4.34	3.13	1.96	0.97	0.27	73.1	73.1
60	0.27	1.02	2.10	3.41	4.77	6.05	7.10	7.82	8.21	8.22	7.85	7.14	6.08	4.79	3.42	2.10	1.03	0.28	81.6	81.6
50	0.27	1.06	2.21	3.62	5.10	6.51	7.67	8.51	8.99	8.99	8.53	7.70	6.53	5.12	3.63	2.22	1.08	0.29	88.0	88.0
40	0.27	1.08	2.28	3.74	5.31	6.77	8.01	8.92	9.45	9.45	8.93	8.03	6.79	5.32	3.75	2.29	1.11	0.29	91.8	91.8
30	0.27	1.09	2.31	3.79	5.35	6.84	8.08	9.02	9.57	9.58	9.03	8.10	6.85	5.36	3.79	2.33	1.13	0.29	92.8	92.8
20	0.27	1.08	2.28	3.73	5.26	6.69	7.89	8.82	9.38	9.38	8.82	7.89	6.69	5.27	3.77	2.33	1.13	0.29	91.0	91.0
10	0.27	1.06	2.21	3.58	5.02	6.36	7.46	8.31	8.86	8.85	8.32	7.49	6.41	5.10	3.67	2.29	1.12	0.29	86.7	86.7
0	0.27	1.03	2.11	3.39	4.70	5.90	6.88	7.63	8.11	8.14	7.69	6.94	5.98	4.79	3.48	2.20	1.09	0.29	80.6	80.6
-10	0.26	0.99	1.99	3.15	4.31	5.34	6.15	6.79	7.20	7.21	6.83	6.19	5.38	4.36	3.20	2.06	1.04	0.28	72.8	72.8
-20	0.26	0.95	1.85	2.86	3.83	4.66	5.31	5.80	6.11	6.13	5.83	5.35	4.70	3.86	2.88	1.89	0.99	0.28	63.5	63.5
-30	0.25	0.90	1.70	2.53	3.31	3.97	4.44	4.75	4.96	4.97	4.77	4.46	4.00	3.34	2.56	1.72	0.93	0.27	53.8	53.8
-40	0.25	0.85	1.53	2.21	2.81	3.28	3.57	3.73	3.81	3.82	3.74	3.59	3.30	2.83	2.23	1.55	0.87	0.26	44.2	44.2
-50	0.24	0.79	1.38	1.91	2.35	2.66	2.79	2.79	2.76	2.76	2.79	2.80	2.67	2.37	1.93	1.39	0.81	0.26	35.5	35.5
-60	0.24	0.75	1.23	1.65	1.95	2.11	2.13	2.01	1.88	1.87	2.00	2.12	2.12	1.97	1.67	1.25	0.76	0.25	28.0	28.0
-70	0.23	0.70	1.11	1.43	1.62	1.66	1.57	1.37	1.16	1.16	1.36	1.56	1.66	1.62	1.44	1.13	0.71	0.24	21.7	21.4
-80	0.23	0.66	1.01	1.24	1.34	1.29	1.12	0.88	0.65	0.65	0.87	1.11	1.29	1.34	1.25	1.02	0.67	0.24	16.9	14.4
-90	0.23	0.66	1.01	1.24	1.34	1.29	1.12	0.88	0.65	0.65	0.87	1.11	1.29	1.34	1.25	1.02	0.67	0.24	16.9	14.4
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)	20	30	40	50	60	70	80	90			
F t	4.62	16.7	32.6	50.6	68.4	84.2	96.4	105	109	109	105	96.8	84.6	68.9	51.0	33.1	17.2	4.89	1138	---
F a	4.62	16.7	32.6	50.6	68.4	84.2	96.4	104	108	108	104	96.7	84.6	68.9	51.0	33.1	17.2	4.89	---	1135

one-half-peak spread: U:63.5,D:57.8 , L:69.9,R:70.7 NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG
 H(h) Interval: 0.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XW
 Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

ISOCANDELA DIAGRAM

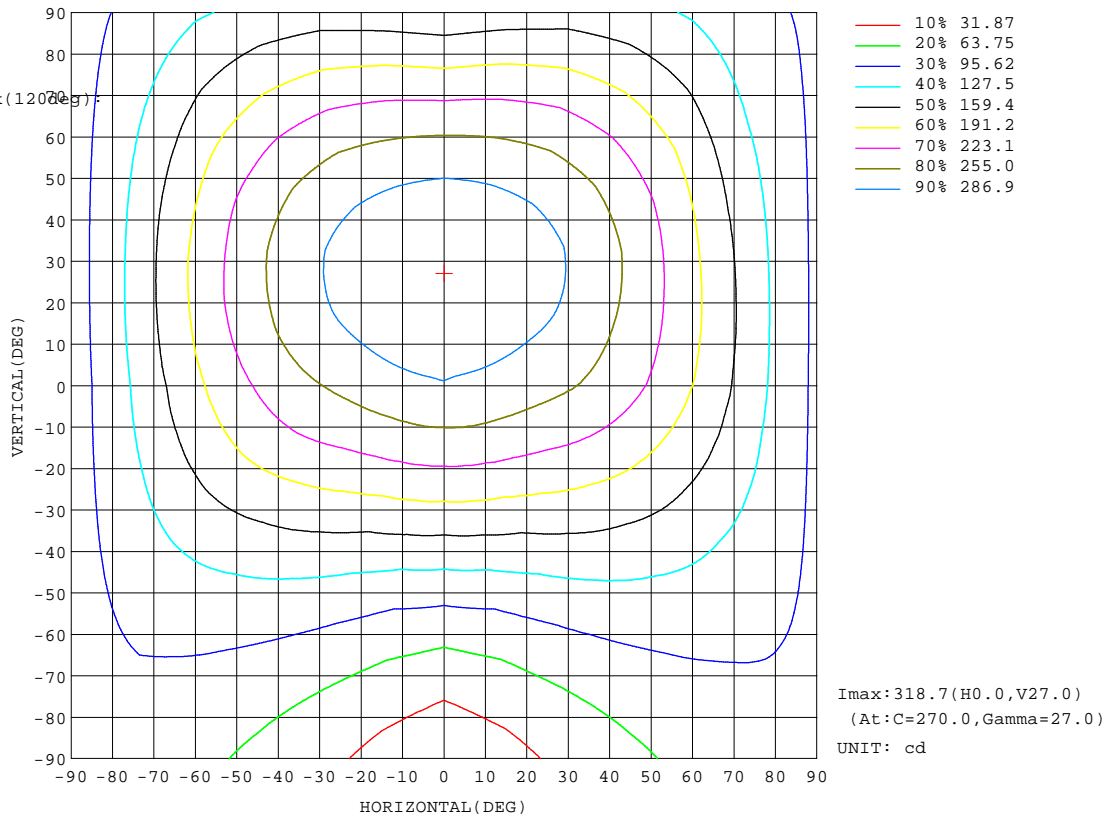
Test:U:230.4V I:0.0605A P:13.25W PF:0.9499 Lamp Flux:2160x1 lm		
NAME: wallpack	TYPE:LED lamp	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20190702001
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

460.85 lm
 %lum = 33.3%
 %lamp = 21.3%

Conical surface Flux(120deg):

721 lm
 %lum = 52.0%
 %lamp = 33.4%

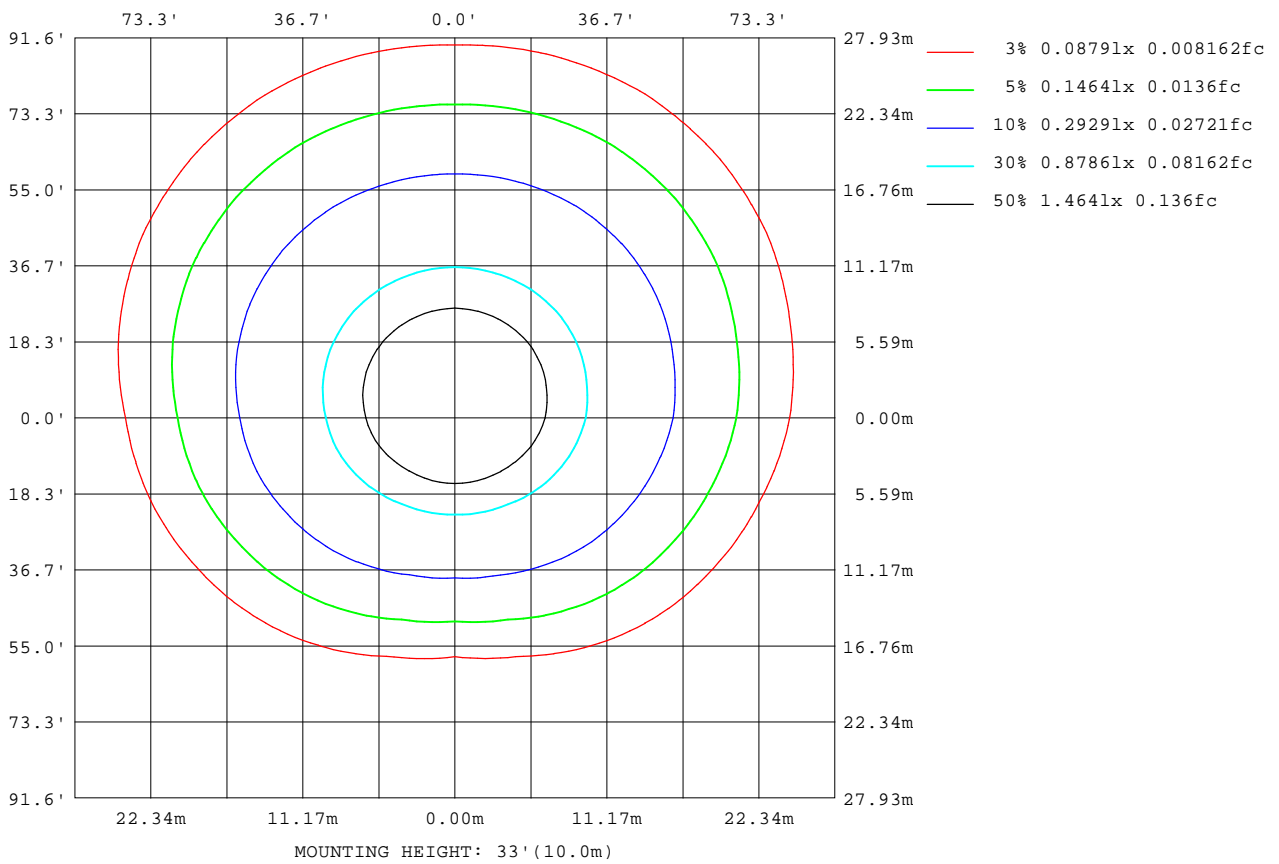


H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XW
 Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

ISOLUX DIAGRAM

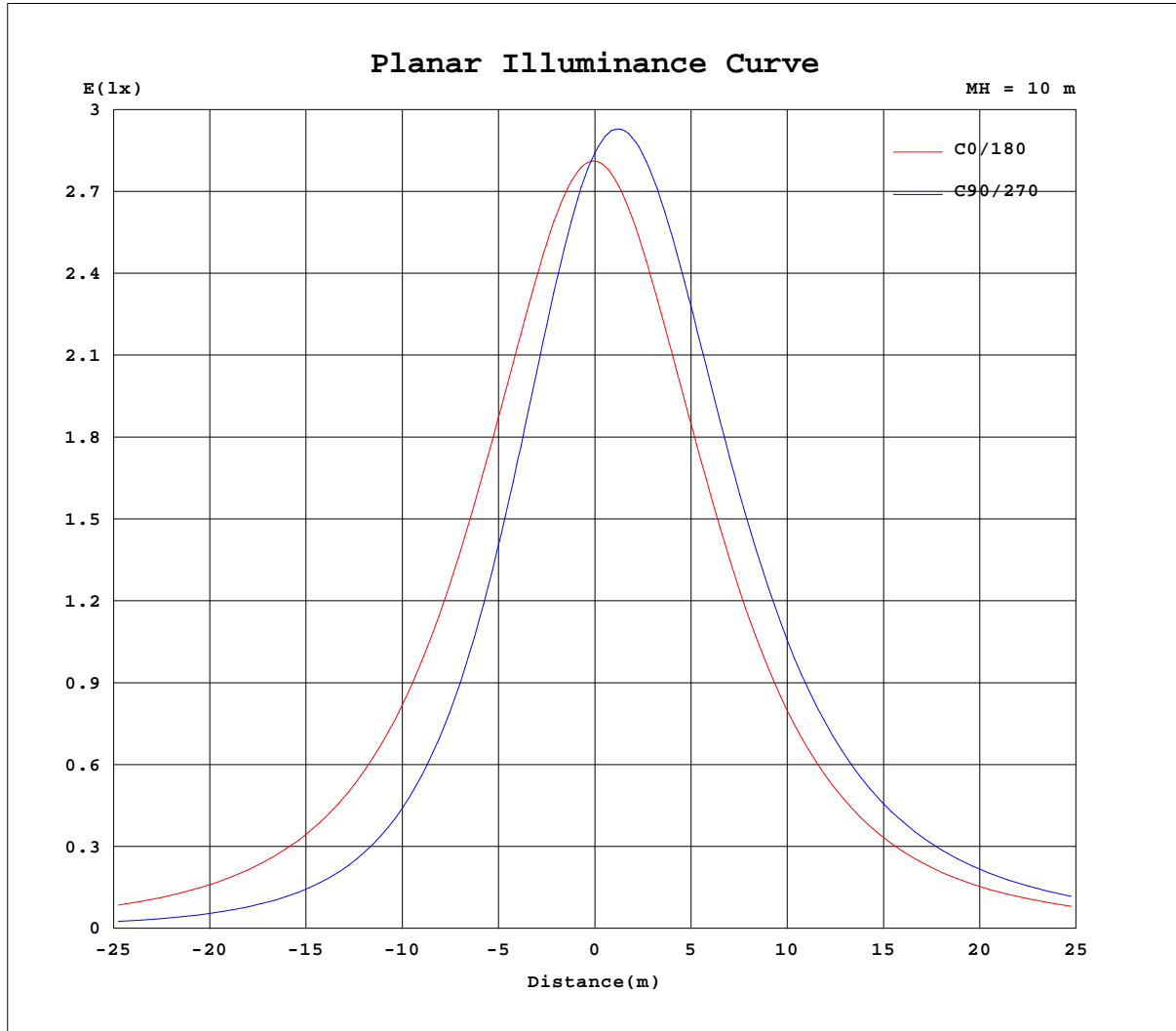
Test:U:230.4V I:0.0605A P:13.25W PF:0.9499 Lamp Flux:2160x1 lm		
NAME: wallpack	TYPE:LED lamp	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20190702001
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:



H_(b) Range:-90 - 90DEG
 H_(b) Interval: 0.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XW
 Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

Planar Illuminance Curve



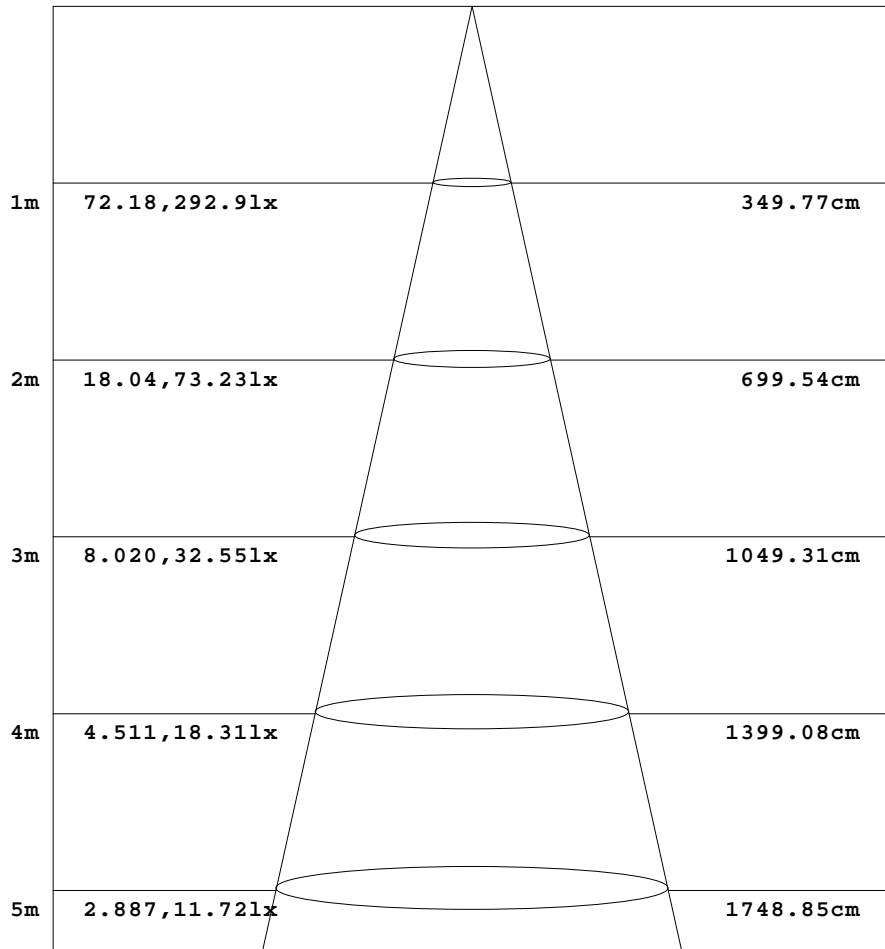
H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XW
 Test Date:2019-07-05

V(β) Range:-180 - 180DEG
 V(β) Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

AAI Figure

Test:U:230.4V I:0.0605A P:13.25W PF:0.9499 Lamp Flux:2160x1 lm		
NAME: wallpack	TYPE:LED lamp	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20190702001
MFR.: AXLUX	SUR.:	PROTECTION ANGLE:

Flux out:738.0 lm



Height Eavg, Emax Angle:120.48deg 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:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.0605A P:13.25W PF:0.9499 Lamp Flux:2160x1 lm		
NAME: wallpack	TYPE:LED lamp	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20190702001
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	84.9	77.8	70.7	63.5	56.4	49.4	42.6	36.0	29.6	23.4	17.3	12.2	8.66	7.72	7.99	8.14	8.34	8.55	8.52
-170	84.9	77.8	70.8	63.8	57.0	50.3	43.8	37.4	30.9	24.9	20.2	15.8	11.7	9.32	9.15	9.12	9.02	8.88	8.69
-160	84.9	78.1	71.3	64.8	58.4	52.2	46.2	40.4	33.8	26.6	21.0	16.6	12.4	9.69	9.06	9.02	8.98	8.90	8.84
-150	84.9	78.5	72.3	66.3	60.4	54.9	49.0	42.2	35.5	29.0	22.5	16.7	13.2	10.0	9.15	9.01	8.95	8.91	8.88
-140	84.9	79.1	73.6	68.2	63.2	57.3	50.7	44.3	38.3	31.8	25.2	19.2	14.8	11.3	9.06	8.99	8.96	8.94	8.93
-130	84.9	79.9	75.2	70.7	66.0	59.5	53.2	47.3	41.2	35.0	29.0	23.1	17.7	13.1	10.8	9.57	8.94	8.93	8.91
-120	84.9	80.9	77.0	73.4	68.4	62.3	56.6	50.8	44.6	38.7	33.0	27.0	21.2	16.2	12.8	9.86	8.81	8.80	8.79
-110	84.9	81.9	79.0	76.3	71.3	65.9	60.6	54.9	49.0	43.3	37.4	31.3	25.6	20.3	15.5	11.0	9.65	9.10	8.59
-100	84.9	83.1	81.3	79.5	74.8	70.1	65.4	59.8	54.3	48.8	42.7	36.7	30.8	25.2	19.6	14.2	12.1	10.2	8.33
-90	84.9	84.3	83.7	83.2	79.4	75.6	71.8	66.9	62.0	57.1	51.4	45.7	40.0	34.3	28.6	22.9	19.4	16.0	12.5
-80	84.9	85.6	86.5	87.4	85.2	82.6	80.0	76.3	72.5	68.5	63.7	58.7	53.5	48.2	42.8	37.2	32.9	28.6	24.1
-70	84.9	87.1	89.8	92.2	92.0	91.2	90.0	88.1	85.5	82.7	79.2	75.2	70.9	66.4	61.6	56.5	52.8	49.1	45.0
-60	84.9	88.7	93.3	97.6	100.0	101	102	102	101	99.8	97.9	95.3	92.2	88.6	84.9	80.7	77.9	75.9	73.3
-50	84.9	90.3	97.1	104	109	113	116	118	119	120	120	119	117	115	113	110	108	108	107
-40	84.9	91.8	101	110	118	125	131	136	139	142	144	145	146	145	144	144	144	145	144
-30	84.9	93.2	104	116	128	138	147	155	161	166	170	173	176	177	178	179	182	183	183
-20	84.9	94.3	108	122	136	149	161	173	182	190	196	201	205	208	211	215	218	220	221
-10	84.9	95.1	110	127	143	159	174	187	200	210	219	227	233	237	242	247	251	254	255
0	84.9	95.5	112	130	149	167	184	200	213	226	237	246	254	260	266	271	276	280	281
10	84.9	96.6	114	134	154	174	193	210	225	240	252	263	272	280	286	293	300	303	305
20	84.9	97.3	115	136	157	178	197	216	233	247	261	273	283	291	299	305	311	315	316
30	84.9	97.4	115	136	157	178	198	216	233	249	263	274	285	294	301	307	312	316	318
40	84.9	97.1	114	134	154	174	193	211	228	243	256	268	278	286	293	298	303	306	308
50	84.9	96.4	112	130	149	167	185	202	217	230	243	253	262	270	275	280	283	285	287
60	84.9	95.2	109	124	141	157	173	188	200	212	223	231	239	245	249	252	254	255	256
70	84.9	93.7	105	117	131	144	158	169	179	189	197	204	210	214	216	218	219	219	218
80	84.9	92.1	100	110	120	131	141	149	157	164	169	174	178	179	180	181	180	179	177
90	84.9	90.4	95.9	101	109	116	123	128	133	138	140	143	145	144	143	143	141	140	138
100	84.9	88.6	91.5	93.7	97.9	102	106	108	110	112	112	112	112	110	108	107	106	105	104
110	84.9	86.8	87.3	86.6	87.6	88.7	89.4	88.9	88.3	87.6	86.0	83.9	82.1	79.3	76.4	74.1	73.3	73.3	73.8
120	84.9	85.0	83.4	80.5	78.5	77.1	75.1	72.4	69.5	66.5	63.4	59.6	56.1	52.9	50.0	48.0	47.3	47.5	48.4
130	84.9	83.3	79.9	75.4	70.7	67.4	63.5	59.1	54.5	49.8	45.1	40.4	35.9	32.0	29.8	28.8	28.5	28.5	29.1
140	84.9	81.8	77.0	71.3	65.2	59.7	54.6	49.1	43.3	37.6	31.8	26.5	21.7	18.1	15.9	15.7	15.9	15.8	16.2
150	84.9	80.5	74.6	68.1	61.3	54.6	48.2	42.2	35.9	29.5	23.3	17.8	12.7	9.34	8.73	8.58	8.60	8.64	8.79
160	84.9	79.4	72.8	65.8	58.7	51.5	44.7	38.1	31.8	25.5	19.4	13.8	9.18	7.14	7.03	7.15	7.27	7.40	7.61
170	84.9	78.5	71.5	64.3	57.0	49.9	42.9	36.2	29.8	23.6	17.8	12.6	8.51	7.36	7.62	7.77	7.83	7.94	8.06
180	84.9	77.8	70.7	63.5	56.4	49.4	42.6	36.0	29.6	23.4	17.3	12.2	8.66	7.72	7.99	8.14	8.34	8.55	8.52

H_b Range:-90 - 90DEG
H_b Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XW
Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.0605A P:13.25W PF:0.9499 Lamp Flux:2160x1 lm		
NAME: wallpack	TYPE:LED lamp	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20190702001
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	8.73	8.73	8.71	8.64	8.62	11.0	15.7	21.4	27.4	33.9	40.7	47.6	54.8	62.0	69.3	76.3	83.7	91.2
-170	8.65	8.72	8.74	8.73	8.82	11.3	15.9	21.3	27.2	33.5	40.1	47.0	54.0	61.3	68.6	75.9	83.4	91.2
-160	8.78	8.80	8.81	8.79	9.28	12.0	16.6	22.1	28.1	34.6	41.1	47.7	54.4	61.4	68.6	76.0	83.4	91.2
-150	8.85	8.85	8.89	8.96	9.81	13.2	18.1	23.8	29.6	35.8	42.3	49.2	55.9	62.5	69.4	76.4	83.5	91.2
-140	8.93	8.94	8.96	8.99	11.5	15.4	20.3	25.9	31.9	38.1	44.3	50.9	57.7	64.3	70.7	77.2	83.9	91.2
-130	8.93	8.96	9.50	10.7	13.0	17.8	23.2	28.9	34.8	41.0	47.3	53.4	59.8	66.6	72.5	78.4	84.5	91.2
-120	8.83	8.87	9.90	12.8	16.1	21.0	26.6	32.6	38.4	44.5	50.9	56.8	62.7	68.9	74.7	79.9	85.3	91.2
-110	8.98	9.41	10.6	15.1	19.8	25.0	30.9	37.0	43.1	48.9	55.0	60.8	66.3	71.9	77.4	81.7	86.2	91.2
-100	9.97	11.7	13.6	19.0	24.6	30.3	36.3	42.4	48.6	54.3	60.0	65.8	70.6	75.5	80.4	83.9	87.3	91.2
-90	15.8	19.0	22.3	28.1	33.9	39.7	45.5	51.3	57.2	62.2	67.3	72.3	76.3	80.2	84.2	86.5	88.8	91.2
-80	28.4	32.5	36.6	42.3	47.9	53.2	58.5	63.8	68.8	72.9	76.9	80.7	83.5	86.1	88.6	89.6	90.3	91.2
-70	48.9	52.5	56.1	61.4	66.1	70.9	75.4	79.6	83.3	86.2	88.8	90.9	92.2	93.1	93.7	93.3	92.3	91.2
-60	75.8	77.7	80.5	84.8	88.8	92.4	95.7	98.6	101	102	103	103	102	101	99.8	97.5	94.2	91.2
-50	108	108	110	113	115	118	120	121	121	120	119	117	114	110	107	102	96.1	91.2
-40	145	144	145	144	146	147	146	145	143	140	137	132	127	120	114	106	98.0	91.2
-30	184	182	180	179	178	177	175	171	167	162	156	148	140	131	121	111	99.9	91.2
-20	221	219	216	212	210	206	203	198	191	184	174	164	153	141	128	115	102	91.2
-10	255	252	248	243	239	235	229	222	213	203	192	179	165	150	134	118	103	91.2
0	281	278	274	269	264	258	251	242	232	220	206	191	175	157	138	120	104	91.2
10	303	299	293	286	280	272	263	253	242	228	213	197	179	160	141	122	104	91.2
20	315	311	305	299	291	283	273	261	248	233	217	199	181	162	142	122	104	91.2
30	316	313	308	301	295	286	275	263	249	233	216	198	179	160	140	121	104	91.2
40	306	304	299	294	287	279	269	257	244	229	212	194	175	156	137	119	103	91.2
50	286	284	280	276	271	263	254	244	231	218	202	185	167	149	132	116	102	91.2
60	256	255	253	250	246	240	232	224	213	201	188	173	157	141	126	112	100	91.2
70	219	219	219	217	215	211	205	198	190	180	170	159	145	131	118	108	98.6	91.2
80	179	181	182	181	180	179	175	170	165	157	150	141	131	120	110	103	96.6	91.2
90	140	142	144	145	145	146	144	141	139	134	129	124	117	109	102	98.3	94.7	91.2
100	105	106	107	109	111	113	113	113	113	111	109	106	102	98.3	94.1	93.8	92.7	91.2
110	73.5	73.6	74.6	77.1	80.1	83.0	84.8	86.9	88.5	89.1	89.6	89.9	89.3	88.2	87.4	89.7	91.0	91.2
120	47.6	47.3	48.2	50.5	53.6	56.9	60.4	64.3	67.5	70.4	73.2	75.8	77.8	79.2	81.7	86.1	89.3	91.2
130	28.6	28.6	29.0	30.2	32.7	36.6	41.2	46.0	50.7	55.4	60.0	64.4	68.4	71.6	77.3	83.1	87.8	91.2
140	15.9	16.1	16.0	16.2	18.6	22.4	27.3	32.8	38.4	44.3	50.1	55.7	60.8	66.8	73.8	80.6	86.5	91.2
150	8.78	8.87	8.98	9.25	10.1	13.6	18.7	24.3	30.5	37.0	43.3	49.4	56.2	63.8	71.4	78.8	85.5	91.2
160	7.70	7.80	7.69	7.68	7.93	10.3	14.7	20.3	26.5	32.9	39.7	46.9	54.3	62.0	69.8	77.5	84.6	91.2
170	8.24	8.34	8.35	8.26	8.12	9.52	13.8	19.4	25.7	32.3	39.3	46.5	53.9	61.5	69.2	76.6	84.0	91.2
180	8.73	8.73	8.71	8.64	8.62	11.0	15.7	21.4	27.4	33.9	40.7	47.6	54.8	62.0	69.3	76.3	83.7	91.2

H_(β) Range:-90 - 90DEG
H_(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XW
Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

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	281.2	282.1	282.7	283.4	284.0	283.9	284.2	283.6	283.6	282.5
3.0	281.1	280.1	278.7	277.9	277.4	276.4	276.2	276.0	276.5	276.8
6.0	280.3	277.3	274.2	271.8	270.0	268.3	267.7	267.9	269.2	270.6
9.0	278.8	273.8	268.9	264.9	261.6	259.5	258.7	259.1	261.0	263.6
12.0	276.7	269.8	262.9	257.5	253.0	250.2	249.0	249.7	252.1	256.3
15.0	274.0	265.2	256.6	249.5	243.9	240.4	238.7	239.8	243.3	248.2
18.0	270.9	260.1	249.6	241.0	234.5	230.0	228.1	229.5	233.4	239.7
21.0	267.7	254.9	242.3	232.1	223.8	219.2	217.0	218.7	223.1	230.8
24.0	264.6	249.9	235.2	222.9	213.9	208.3	206.4	207.8	212.6	221.7
27.0	261.4	244.8	228.0	213.6	202.8	197.2	195.0	196.6	202.1	212.3
30.0	257.8	239.6	220.8	204.5	192.3	186.0	182.9	185.5	191.5	203.4
33.0	253.9	234.1	213.6	196.1	182.1	174.8	172.0	174.2	181.0	194.4
36.0	249.2	227.7	206.0	187.1	171.2	162.9	159.6	162.4	170.3	185.8
39.0	243.9	221.3	198.2	178.2	161.1	151.5	147.7	151.0	160.1	177.1
42.0	238.2	214.4	190.2	169.8	150.8	140.4	136.2	140.0	150.3	168.5
45.0	232.0	206.5	181.9	160.5	141.5	128.9	125.2	128.5	140.7	159.4
48.0	224.8	198.9	173.5	151.9	131.9	118.6	113.7	118.2	131.5	150.8
51.0	217.4	190.6	164.9	143.2	123.2	108.2	102.8	108.0	122.7	142.2
54.0	209.1	181.6	156.3	134.4	114.3	98.24	92.52	98.15	114.1	133.4
57.0	200.3	172.7	147.6	126.1	106.0	89.18	82.38	89.29	105.9	125.2
60.0	191.4	163.5	139.1	118.2	98.40	80.86	73.30	81.06	98.77	117.3
63.0	181.9	154.1	130.7	110.5	91.02	73.05	64.30	73.31	90.75	109.7
66.0	171.0	144.6	122.5	103.2	83.46	65.64	55.38	65.98	83.63	102.4
69.0	161.1	135.2	114.7	96.24	77.13	58.74	47.93	59.15	76.95	95.55
72.0	149.7	125.9	107.4	89.58	70.38	52.21	40.26	52.66	70.59	88.96
75.0	138.5	117.1	100.4	83.30	64.30	46.11	33.62	46.63	64.55	82.74
78.0	127.9	108.9	93.91	77.37	58.84	40.45	27.87	41.01	58.90	76.92
81.0	116.9	101.6	87.85	71.76	53.42	35.24	22.54	35.83	53.63	71.43
84.0	106.6	94.94	82.20	66.51	48.35	30.42	18.16	31.05	48.70	66.27
87.0	97.79	89.21	77.02	61.66	43.76	26.13	14.98	26.77	44.18	61.52
90.0	91.17	84.16	72.32	57.16	39.71	22.25	12.52	22.90	40.03	57.13
93.0	86.50	79.72	68.03	53.03	35.80	18.87	10.57	19.51	36.22	53.10
96.0	82.17	75.79	64.22	49.38	32.34	16.03	9.185	16.66	32.86	49.51
99.0	78.07	71.87	60.87	46.26	29.61	13.71	8.392	14.31	30.12	46.48
102.0	73.39	67.90	57.22	43.34	27.14	12.26	8.380	12.83	27.72	43.61
105.0	69.31	63.95	53.98	40.51	25.09	11.14	8.455	11.63	25.66	40.80
108.0	64.75	59.95	50.36	37.67	22.87	10.20	8.545	10.59	23.45	37.98
111.0	60.37	55.96	46.89	34.85	20.82	9.423	8.620	9.728	21.33	35.19
114.0	56.04	52.03	43.51	32.08	18.85	8.909	8.695	9.078	19.15	32.48
117.0	51.87	48.07	40.21	29.35	17.02	8.850	8.745	8.770	17.17	29.73
120.0	47.63	44.16	36.70	26.64	15.23	8.900	8.795	8.825	15.32	26.74
123.0	43.33	40.31	33.32	23.99	13.50	8.935	8.840	8.875	13.67	23.53
126.0	39.24	36.53	30.12	21.41	11.95	8.956	8.875	8.920	12.21	20.35
129.0	35.20	32.72	26.92	18.89	10.54	8.961	8.895	8.942	10.92	17.72
132.0	31.29	29.08	23.64	16.52	9.468	8.965	8.915	8.947	9.824	15.71
135.0	27.40	25.49	20.60	14.24	9.016	8.955	8.920	8.952	9.157	13.70
138.0	23.74	22.00	17.79	12.14	8.980	8.945	8.924	8.957	9.044	12.25
141.0	20.03	18.74	14.94	10.31	8.950	8.910	8.922	8.955	9.020	10.49
144.0	16.72	15.63	12.42	9.113	8.925	8.885	8.920	8.947	9.022	9.448
147.0	13.72	12.82	10.34	8.820	8.890	8.855	8.900	8.938	9.012	9.223
150.0	11.02	10.48	9.013	8.800	8.855	8.825	8.880	8.927	9.010	9.185
153.0	9.241	8.912	8.786	8.792	8.835	8.815	8.870	8.918	8.997	9.147
156.0	8.615	8.660	8.769	8.786	8.815	8.790	8.855	8.912	8.992	9.108
159.0	8.635	8.695	8.752	8.780	8.795	8.775	8.843	8.900	8.987	9.070
162.0	8.685	8.717	8.736	8.755	8.765	8.735	8.825	8.880	8.982	9.044
165.0	8.710	8.722	8.722	8.730	8.725	8.700	8.790	8.860	8.970	9.025
168.0	8.730	8.715	8.709	8.690	8.670	8.640	8.735	8.815	8.930	8.985
171.0	8.734	8.670	8.670	8.630	8.595	8.575	8.675	8.740	8.865	8.940
174.0	8.732	8.635	8.605	8.545	8.520	8.525	8.615	8.670	8.790	8.910
177.0	8.730	8.580	8.570	8.490	8.475	8.495	8.585	8.630	8.765	8.880
180.0	8.670	8.590	8.525	8.475	8.470	8.475	8.515	8.575	8.715	8.860
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	281.5	280.7	281.2	282.1	282.7	283.4	284.0	283.9	284.2	283.6
3.0	277.4	278.6	280.5	283.3	285.9	288.2	290.2	290.7	291.4	290.5
6.0	272.8	275.7	279.1	283.9	288.3	292.1	295.5	296.7	297.6	296.5
9.0	267.5	272.2	277.1	283.8	290.0	295.4	299.9	302.9	303.2	302.6
12.0	261.4	268.2	274.4	283.0	291.0	297.9	303.7	307.1	308.0	307.0
15.0	255.0	263.6	271.3	281.8	291.3	300.3	306.6	310.7	311.7	310.7
18.0	248.1	258.4	268.0	280.1	291.2	301.2	308.6	313.2	315.0	313.2
21.0	240.8	253.2	264.6	278.3	290.5	301.6	310.0	315.1	316.9	315.4
24.0	233.6	248.0	261.4	276.4	289.7	301.3	310.4	316.0	318.1	316.2
27.0	226.4	243.0	258.0	274.4	288.5	300.4	310.1	316.1	318.7	316.2
30.0	219.2	237.8	254.2	272.0	287.1	299.2	308.6	315.1	317.7	315.4

H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XW
 Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

Photometric Data Table [cd]

33.0	212.1	232.2	249.5	268.8	284.9	297.7	306.6	313.3	316.0	313.5
36.0	204.5	226.1	244.5	265.0	282.0	295.1	303.8	310.4	313.3	310.6
39.0	196.7	219.5	238.9	260.4	278.4	291.8	300.7	306.8	309.9	306.9
42.0	188.8	212.6	232.8	255.4	274.0	287.8	295.6	302.0	304.9	302.1
45.0	180.6	205.2	226.1	249.5	268.9	282.9	290.9	296.2	299.0	296.6
48.0	172.1	197.3	218.6	243.1	263.0	277.1	285.1	289.4	291.9	290.0
51.0	163.7	189.2	211.0	236.0	256.3	270.6	278.7	282.1	284.1	282.8
54.0	155.1	180.4	202.5	228.1	248.9	263.4	271.4	273.9	275.5	274.8
57.0	146.4	171.4	193.6	219.7	240.8	255.4	263.3	265.1	266.2	266.1
60.0	137.9	162.3	184.1	210.6	231.9	246.9	254.5	255.6	256.1	256.8
63.0	129.5	152.9	174.0	200.9	222.8	237.2	245.1	245.7	245.3	247.1
66.0	121.4	143.4	163.6	190.6	213.1	227.1	235.1	235.2	234.1	236.5
69.0	113.6	134.0	152.3	179.8	202.3	216.8	224.6	224.4	221.8	225.7
72.0	106.3	124.7	141.2	168.5	191.1	205.9	213.8	213.1	209.4	214.3
75.0	99.39	115.9	130.3	156.9	179.8	194.7	202.7	201.5	197.2	202.6
78.0	93.00	107.7	119.0	145.2	168.8	183.4	191.0	189.9	185.4	191.2
81.0	87.00	100.3	108.2	133.4	156.9	172.0	179.4	178.1	172.9	179.2
84.0	81.48	93.75	98.47	122.0	145.6	160.3	168.0	166.3	161.2	167.4
87.0	76.38	88.16	90.44	111.4	134.4	149.2	156.5	154.5	149.6	155.5
90.0	71.75	83.19	84.85	101.5	123.2	137.9	144.9	142.8	138.4	143.8
93.0	67.58	78.90	80.65	92.63	113.2	126.8	133.5	131.3	128.3	132.2
96.0	63.91	75.06	76.40	84.84	103.0	116.1	122.2	120.0	117.6	120.8
99.0	60.52	71.20	72.09	77.83	93.07	105.5	111.2	108.8	107.3	109.6
102.0	57.11	67.31	67.80	71.58	84.49	95.32	100.4	98.14	97.84	98.84
105.0	53.74	63.42	63.50	65.85	76.28	85.61	90.03	87.84	88.51	88.48
108.0	50.35	59.50	59.24	60.48	68.39	76.29	80.01	78.03	79.45	78.54
111.0	46.97	55.57	55.03	55.36	60.99	67.48	70.37	68.74	70.56	69.17
114.0	43.62	51.73	50.83	50.51	54.64	59.25	61.34	60.21	63.02	60.54
117.0	40.27	47.87	46.68	46.00	48.29	51.50	52.80	52.45	55.02	52.62
120.0	36.90	44.02	42.61	41.64	42.41	44.29	44.93	45.49	48.35	45.58
123.0	33.37	40.05	38.62	37.48	37.12	37.71	37.79	39.31	41.90	39.35
126.0	29.79	35.86	34.69	33.46	31.76	31.62	31.25	33.65	35.92	33.76
129.0	26.28	31.55	30.82	29.57	27.04	26.06	25.45	28.64	30.63	28.75
132.0	22.28	27.45	27.15	25.83	22.80	21.08	20.73	24.24	26.04	24.36
135.0	18.71	24.65	23.40	22.17	18.93	16.56	16.85	20.34	21.89	20.48
138.0	16.92	21.70	19.73	18.69	15.41	12.60	14.00	16.97	18.28	17.13
141.0	15.13	18.69	16.21	15.45	12.28	9.553	11.63	14.06	15.20	14.26
144.0	12.84	15.81	13.11	12.35	9.597	7.830	9.669	11.60	12.54	11.82
147.0	10.86	13.10	10.49	9.656	7.687	7.147	8.337	9.619	10.36	9.814
150.0	9.498	10.96	8.655	8.018	7.067	6.901	7.563	8.367	8.791	8.582
153.0	9.141	9.472	7.641	7.426	7.231	7.065	7.105	7.633	7.938	7.852
156.0	9.140	9.165	7.776	7.560	7.397	7.225	7.171	7.227	7.411	7.491
159.0	9.139	9.175	7.926	7.835	7.746	7.505	7.372	7.365	7.566	7.700
162.0	9.138	9.205	8.051	7.895	7.801	7.640	7.561	7.535	7.641	7.755
165.0	9.136	9.221	8.141	7.985	7.896	7.790	7.731	7.690	7.776	7.895
168.0	9.135	9.225	8.266	8.100	8.041	7.950	7.901	7.870	7.946	8.045
171.0	9.105	9.225	8.381	8.225	8.191	8.110	8.081	8.045	8.126	8.200
174.0	9.085	9.213	8.511	8.360	8.326	8.250	8.246	8.225	8.286	8.355
177.0	9.060	9.190	8.615	8.485	8.446	8.380	8.381	8.360	8.426	8.490
180.0	9.025	9.175	8.655	8.575	8.510	8.470	8.465	8.470	8.505	8.585
G/C	300.0	315.0	330.0	345.0						
0.0	283.6	282.5	281.5	280.7						
3.0	289.7	287.3	284.7	284.7						
6.0	295.0	291.3	287.3	282.8						
9.0	299.4	294.7	289.2	282.8						
12.0	303.4	297.4	290.3	282.2						
15.0	306.3	300.3	290.8	281.0						
18.0	308.5	301.0	290.8	279.5						
21.0	309.7	301.5	290.2	277.8						
24.0	310.4	301.4	289.5	276.2						
27.0	310.0	300.6	288.7	274.3						
30.0	308.8	299.6	287.2	271.8						
33.0	306.9	298.0	285.2	268.7						
36.0	304.3	295.7	282.3	264.9						
39.0	301.2	292.5	278.7	260.5						
42.0	296.6	288.6	274.4	255.4						
45.0	291.9	283.7	269.3	249.6						
48.0	286.2	278.0	263.4	243.1						
51.0	279.8	271.6	256.8	236.0						
54.0	272.6	264.3	249.5	228.2						
57.0	264.6	256.3	241.5	219.7						
60.0	255.8	247.7	232.7	210.7						
63.0	246.4	238.2	223.4	201.0						
66.0	236.3	228.4	213.4	190.7						

H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XW
Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.

Photometric Data Table [cd]

69.0	225.9	218.0	203.0	180.0
72.0	215.0	207.1	192.1	168.7
75.0	204.1	196.0	181.0	157.1
78.0	192.4	184.6	169.1	145.5
81.0	180.7	173.1	157.4	133.7
84.0	169.2	161.5	146.1	122.3
87.0	157.6	150.2	134.9	111.6
90.0	146.0	138.9	123.9	101.8
93.0	134.6	127.8	113.4	93.01
96.0	123.3	117.0	103.5	85.37
99.0	112.2	106.4	93.88	78.53
102.0	101.4	96.21	85.05	72.42
105.0	90.99	86.52	76.83	66.82
108.0	80.89	77.22	69.18	61.53
111.0	71.23	68.38	62.06	56.47
114.0	62.13	60.14	55.42	51.73
117.0	53.50	52.39	49.19	47.23
120.0	45.61	45.19	43.40	42.84
123.0	38.44	38.56	37.97	38.68
126.0	31.84	32.46	32.83	34.61
129.0	26.04	26.88	28.05	30.64
132.0	21.24	21.88	23.81	26.83
135.0	17.21	17.37	19.86	23.11
138.0	14.32	13.51	16.31	19.59
141.0	11.99	10.49	13.28	16.32
144.0	10.10	8.535	10.70	13.31
147.0	8.772	7.772	8.745	10.74
150.0	7.993	7.556	7.831	8.909
153.0	7.535	7.700	7.971	8.190
156.0	7.642	7.830	8.121	8.320
159.0	7.920	8.085	8.266	8.460
162.0	7.971	8.155	8.396	8.575
165.0	8.096	8.290	8.536	8.710
168.0	8.241	8.425	8.655	8.815
171.0	8.381	8.560	8.770	8.915
174.0	8.521	8.675	8.875	9.019
177.0	8.645	8.780	8.960	9.109
180.0	8.715	8.860	9.020	9.180

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XW
Test Date:2019-07-05

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: WPN1-242-015-4000K Ra80 HL3030 OSRAM dr.