

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		2517.0 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	61.1V x 61.7H
	At 50% of Imax	30.5V x 31.1H
	At 90% of Imax	11.1V x 11.9H
Beam Flux	Total	1000.4 lumens per klm.
	To 10% of Imax	794.1 lumens per klm.
	To 50% of Imax	406.4 lumens per klm.
	To 90% of Imax	69.4 lumens per klm.
	Upward LOR	2.0 %
	Downward LOR	98.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

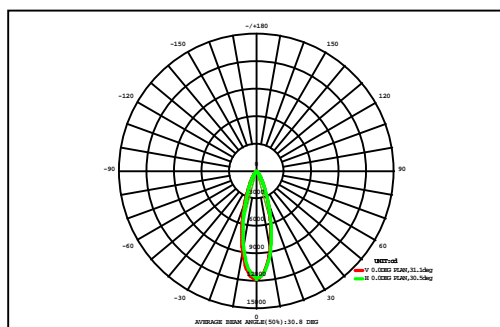
---

H( $\theta$ ) Range:-90 - 90DEG  
H( $\theta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2019-02-27

V( $\theta$ ) Range:-180 - 180DEG  
V( $\theta$ ) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:2.420A P:58.07W PF:1.000 Lamp Flux:4692.12x1 lm		
NAME: L2881-60W-36-W-NE60-XP	TYPE:WALL WASHER	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:80.80lm/W	
MODEL	CREE XPG3 3000K	Imax(cd)	11810
NOMINAL POWER(W)	60	AVAILABILITY(%)	79.5
RATED VOLTAGE(V)	DC 24	Avai. FLUX(lm)	3728
NOMINAL FLUX(lm)	4692.12	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	4692
TEST VOLTAGE(V)	DC 24	q @50%(H,V)	31,30DEG

VERTICAL( DEG )	AREA FLUX DIAGRAM															UNIT:lm			F t	F a
	0.02	0.05	0.09	0.13	0.17	0.21	0.25	0.27	0.29	0.29	0.27	0.25	0.21	0.17	0.13	0.09	0.06	0.02		
90																				
80	0.02	0.06	0.13	0.23	0.37	0.53	0.68	0.80	0.87	0.88	0.81	0.69	0.53	0.37	0.23	0.13	0.07	0.02	7.45	0.00
70	0.02	0.08	0.22	0.45	0.78	1.15	1.52	1.82	2.01	2.01	1.83	1.53	1.16	0.78	0.45	0.22	0.09	0.03	16.1	0.00
60	0.02	0.11	0.34	0.75	1.32	2.04	2.83	3.55	3.99	3.98	3.52	2.80	2.03	1.32	0.74	0.34	0.12	0.03	29.8	0.00
50	0.02	0.15	0.48	1.08	2.02	3.41	5.25	7.26	8.68	8.64	7.16	5.15	3.34	1.99	1.07	0.48	0.15	0.03	56.4	0.00
40	0.03	0.18	0.61	1.44	2.94	5.71	10.6	17.6	23.5	23.3	17.3	10.4	5.55	2.87	1.43	0.62	0.19	0.03	124	4.90
30	0.03	0.21	0.74	1.81	4.10	9.61	22.9	46.8	70.0	69.3	45.5	22.1	9.27	3.98	1.80	0.75	0.22	0.03	309	223
	0.03	0.23	0.83	2.13	5.34	15.0	44.1	108	178	175	104	41.9	14.3	5.20	2.14	0.85	0.25	0.04	698	636
	0.03	0.25	0.88	2.33	6.20	19.4	64.3	173	300	293	165	60.6	18.5	6.07	2.35	0.92	0.26	0.04	1114	1060
	0.03	0.25	0.88	2.32	6.13	19.0	62.6	168	290	288	163	59.8	18.3	6.06	2.36	0.92	0.27	0.04	1087	1032
	0.03	0.24	0.83	2.12	5.20	14.2	40.9	99.1	164	162	96.8	39.8	14.0	5.20	2.17	0.87	0.25	0.04	648	585
-30	0.03	0.21	0.74	1.81	3.97	8.98	20.7	41.9	62.2	61.7	41.1	20.3	8.92	4.01	1.85	0.78	0.23	0.04	280	187
-40	0.03	0.19	0.62	1.45	2.88	5.40	9.74	15.9	20.8	20.7	15.7	9.61	5.37	2.91	1.49	0.65	0.20	0.03	114	0.00
-50	0.03	0.15	0.49	1.10	2.01	3.30	4.98	6.76	7.94	7.92	6.71	4.95	3.30	2.05	1.14	0.51	0.16	0.03	53.5	0.00
-60	0.02	0.12	0.36	0.77	1.34	2.05	2.80	3.47	3.86	3.86	3.47	2.82	2.07	1.38	0.80	0.37	0.13	0.03	29.7	0.00
-70	0.02	0.09	0.24	0.48	0.80	1.18	1.56	1.87	2.04	2.05	1.89	1.60	1.22	0.83	0.49	0.25	0.10	0.03	16.8	0.00
-80	0.02	0.08	0.16	0.27	0.40	0.56	0.72	0.84	0.91	0.92	0.86	0.74	0.58	0.41	0.27	0.17	0.09	0.03	8.02	0.00
-90	0.02	0.07	0.13	0.18	0.23	0.27	0.31	0.34	0.35	0.35	0.34	0.31	0.27	0.23	0.18	0.13	0.08	0.03	3.80	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL( DEG ) 20 30 40 50 60 70 80 90																				
F t	0.45	2.72	8.78	20.9	46.2	112	297	698	1139	1125	676	285	109	45.8	21.1	9.06	2.94	0.56	4598	---
F a	0.00	0.00	0.00	0.00	0.00	3.89	202	619	1065	1051	597	189	1.88	0.00	0.00	0.00	0.00	0.00	---	3728

one-half-peak spread: U:14.8,D:15.9 , L:16.0,R:15.4

NEMA Beam Type: Type 4

H(h) Range:-90 - 90DEG  
H(h) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2019-02-27

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.00V I:2.420A P:58.07W PF:1.000 Lamp Flux:4692.12x1 lm		
NAME: L2881-60W-36-W-NE60-XP	TYPE:WALL WASHER	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

4282.4 lm

%lum = 91.2%

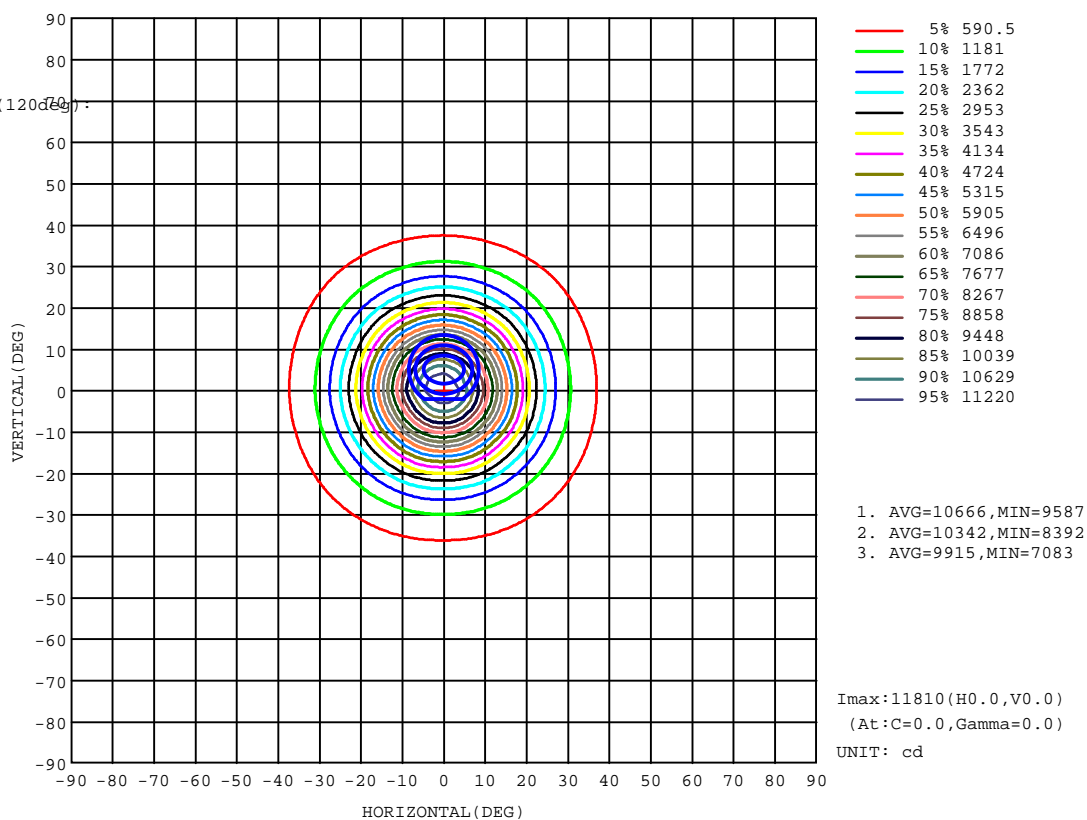
%lamp = 91.3%

Conical surface Flux(120deg):

4489.9 lm

%lum = 95.7%

%lamp = 95.7%



H(B) Range:-90 - 90DEG

H(B) Interval: 0.5DEG

Test Speed: HIGH

Temperature:30DEG

Operators:Matthew

Test Date:2019-02-27

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290

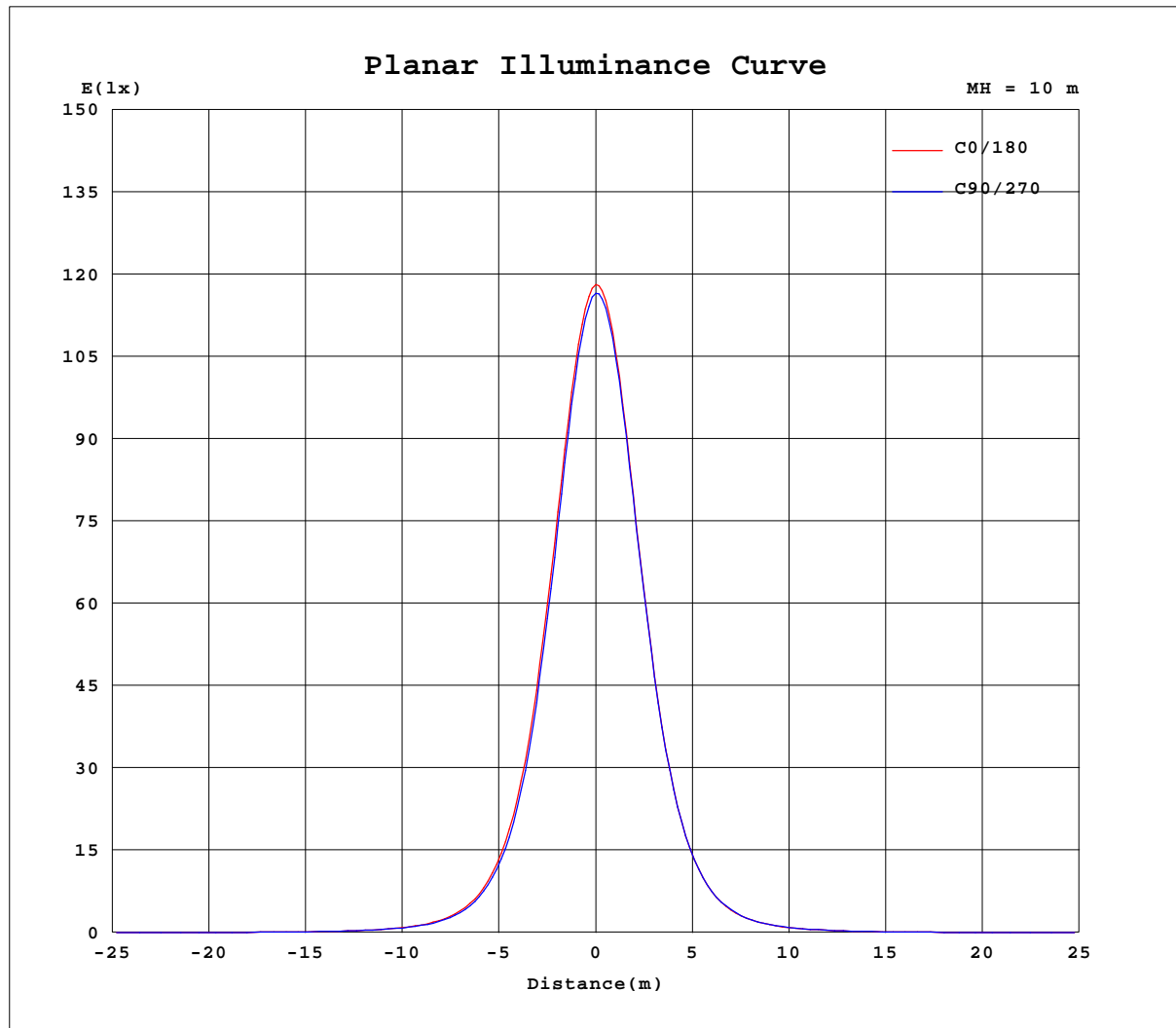
Humidity:65.0%

Test Distance:11.510m [K=1.0000]

Remarks:



## Planar Illuminance Curve

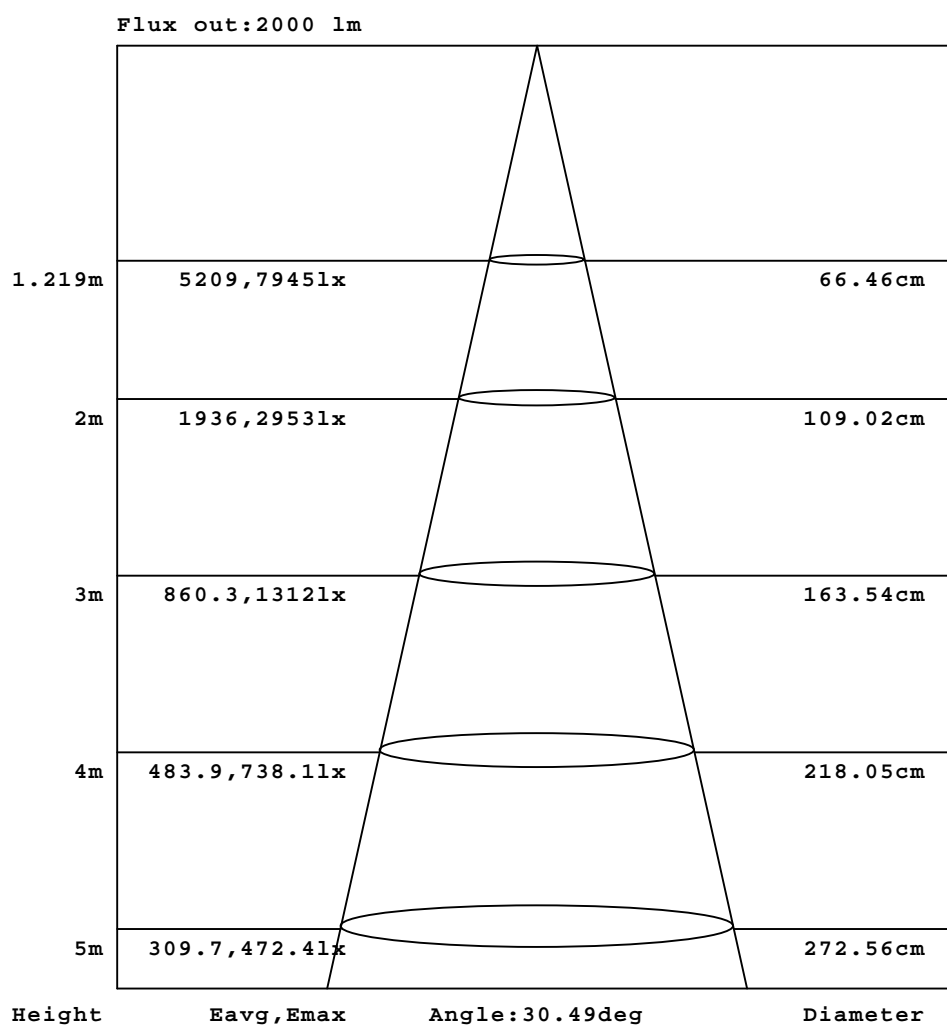


H(b) Range:-90 - 90DEG  
H(b) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2019-02-27

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## AAI Figure

Test:U:24.00V I:2.420A P:58.07W PF:1.000 Lamp Flux:4692.12x1 lm		
NAME: L2881-60W-36-W-NE60-XP	TYPE:WALL WASHER	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:



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

H( $\theta$ ) Range:-90 - 90DEG  
H( $\theta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:30DEG  
Operators:Matthew  
Test Date:2019-02-27

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:11.510m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:2.420A P:58.07W PF:1.000 Lamp Flux:4692.12x1 lm		
NAME: L2881-60W-36-W-NE60-XP	TYPE:WALL WASHER	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: ×10cd

H(°) \ V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.64	0.58	0.52	0.47	0.45	0.48	0.59	0.80	1.12	1.55	2.05	2.58	3.06	3.45	3.73	3.89	3.97	4.02	3.97
-170	0.64	0.60	0.56	0.52	0.52	0.58	0.70	0.92	1.25	1.67	2.16	2.67	3.12	3.48	3.71	3.82	3.87	3.91	3.91
-160	0.64	0.61	0.59	0.58	0.60	0.66	0.78	0.98	1.28	1.66	2.09	2.49	2.85	3.15	3.39	3.56	3.67	3.74	3.77
-150	0.64	0.63	0.63	0.63	0.66	0.73	0.84	1.01	1.24	1.46	1.72	2.02	2.32	2.59	2.83	3.02	3.15	3.24	3.28
-140	0.64	0.64	0.66	0.69	0.73	0.80	0.89	0.98	1.07	1.19	1.34	1.52	1.72	1.91	2.08	2.23	2.35	2.43	2.46
-130	0.64	0.66	0.69	0.74	0.79	0.86	0.92	0.92	0.95	0.99	1.06	1.14	1.23	1.32	1.41	1.49	1.55	1.59	1.61
-120	0.64	0.67	0.72	0.78	0.84	0.91	0.92	0.91	0.91	0.91	0.92	0.94	0.96	0.99	1.01	1.03	1.05	1.06	1.07
-110	0.64	0.68	0.74	0.81	0.88	0.94	0.93	0.93	0.93	0.92	0.92	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
-100	0.64	0.69	0.76	0.83	0.90	0.94	0.95	0.95	0.95	0.96	0.95	0.95	0.95	0.95	0.94	0.94	0.95	0.95	0.95
-90	0.64	0.71	0.77	0.84	0.91	0.94	0.95	0.95	0.95	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
-80	0.64	0.73	0.83	0.92	1.00	1.07	1.10	1.15	1.20	1.25	1.32	1.40	1.47	1.53	1.59	1.64	1.68	1.70	1.71
-70	0.64	0.76	0.90	1.05	1.25	1.48	1.72	2.01	2.33	2.65	2.99	3.33	3.64	3.92	4.17	4.38	4.53	4.63	4.67
-60	0.64	0.80	0.99	1.30	1.71	2.25	2.84	3.49	4.18	4.88	5.60	6.31	6.99	7.61	8.17	8.63	8.97	9.17	9.24
-50	0.64	0.83	1.13	1.62	2.34	3.22	4.21	5.27	6.41	7.63	8.93	10.3	11.8	13.2	14.6	15.9	16.8	17.4	17.6
-40	0.64	0.86	1.28	2.00	3.03	4.25	5.64	7.18	8.96	11.1	13.6	16.5	20.1	24.2	28.6	33.1	36.9	39.4	40.1
-30	0.64	0.89	1.42	2.37	3.66	5.21	7.00	9.14	11.9	15.4	20.3	27.0	36.5	49.3	65.7	84.1	102	114	117
-20	0.64	0.91	1.54	2.67	4.18	5.99	8.17	11.0	14.9	20.6	29.3	43.8	67.3	103	154	220	289	341	356
-10	0.64	0.92	1.61	2.86	4.51	6.52	9.02	12.5	17.5	25.5	39.3	64.4	109	184	301	460	637	786	837
0	0.64	0.92	1.63	2.92	4.62	6.70	9.34	13.1	18.7	27.9	45.0	76.0	134	237	403	633	896	1108	1181
10	0.64	0.91	1.60	2.85	4.49	6.50	9.01	12.5	17.7	26.0	40.5	66.9	114	195	320	493	686	834	890
20	0.64	0.89	1.51	2.63	4.13	5.94	8.15	11.0	15.2	21.2	30.8	46.8	72.7	113	172	244	319	379	402
30	0.64	0.86	1.38	2.31	3.60	5.13	6.93	9.11	12.0	15.8	21.2	28.7	39.5	54.5	73.0	93.8	114	129	135
40	0.64	0.83	1.22	1.93	2.94	4.15	5.52	7.09	8.93	11.2	13.9	17.3	21.3	25.9	31.0	36.2	40.8	44.2	45.4
50	0.64	0.79	1.05	1.53	2.22	3.09	4.07	5.14	6.31	7.56	8.93	10.4	12.0	13.6	15.2	16.6	17.8	18.5	18.7
60	0.64	0.75	0.90	1.17	1.56	2.08	2.69	3.35	4.05	4.76	5.48	6.18	6.86	7.49	8.06	8.56	8.95	9.19	9.27
70	0.64	0.70	0.79	0.90	1.06	1.28	1.54	1.86	2.19	2.53	2.87	3.20	3.50	3.77	4.01	4.22	4.38	4.48	4.52
80	0.64	0.67	0.70	0.74	0.78	0.82	0.86	0.93	0.99	1.06	1.15	1.23	1.31	1.38	1.45	1.50	1.55	1.57	1.59
90	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66	0.66	0.66
100	0.64	0.62	0.61	0.61	0.61	0.60	0.59	0.58	0.57	0.56	0.55	0.55	0.54	0.53	0.53	0.52	0.51	0.51	0.50
110	0.64	0.61	0.60	0.59	0.57	0.55	0.53	0.50	0.48	0.46	0.45	0.44	0.43	0.42	0.42	0.41	0.41	0.41	0.40
120	0.64	0.61	0.59	0.56	0.53	0.50	0.47	0.45	0.43	0.43	0.43	0.44	0.45	0.47	0.49	0.51	0.52	0.53	0.54
130	0.64	0.60	0.57	0.53	0.49	0.46	0.44	0.44	0.45	0.49	0.54	0.61	0.69	0.78	0.86	0.94	1.00	1.04	1.06
140	0.64	0.60	0.55	0.51	0.47	0.45	0.44	0.48	0.55	0.66	0.81	0.99	1.19	1.39	1.59	1.76	1.89	1.98	2.01
150	0.64	0.59	0.54	0.49	0.45	0.45	0.48	0.57	0.72	0.93	1.21	1.52	1.86	2.18	2.48	2.72	2.90	3.00	3.04
160	0.64	0.59	0.53	0.48	0.45	0.46	0.53	0.67	0.91	1.23	1.62	2.06	2.49	2.88	3.19	3.43	3.58	3.66	3.70
170	0.64	0.58	0.53	0.47	0.45	0.47	0.57	0.76	1.05	1.45	1.93	2.43	2.91	3.29	3.58	3.77	3.87	3.91	3.92
180	0.64	0.58	0.52	0.47	0.45	0.48	0.59	0.80	1.12	1.55	2.05	2.58	3.06	3.45	3.73	3.89	3.97	4.02	3.97

H(h) Range:-90 - 90DEG

H(h) Interval: 0.5DEG

Test Speed: HIGH

Temperature:30DEG

Operators:Matthew

Test Date:2019-02-27

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290

Humidity:65.0%

Test Distance:11.510m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:2.420A P:58.07W PF:1.000 Lamp Flux:4692.12x1 lm																	
NAME: L2881-60W-36-W-NE60-XP									TYPE:WALL WASHER						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:1		
MFR.:									SUR.:						PROTECTION ANGLE:		

Table--2

UNIT: ×10cd

H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	4.01	3.98	3.95	3.86	3.68	3.39	3.01	2.56	2.09	1.67	1.34	1.11	0.97	0.91	0.92	0.93	0.95	0.95
-170	3.93	3.91	3.88	3.78	3.59	3.28	2.90	2.46	2.01	1.62	1.31	1.09	0.97	0.91	0.92	0.93	0.95	0.95
-160	3.77	3.72	3.63	3.47	3.24	2.93	2.57	2.18	1.80	1.47	1.22	1.04	0.95	0.91	0.92	0.94	0.95	0.95
-150	3.26	3.19	3.06	2.89	2.65	2.38	2.08	1.78	1.50	1.28	1.10	0.99	0.93	0.91	0.92	0.94	0.95	0.95
-140	2.44	2.37	2.26	2.11	1.94	1.75	1.55	1.37	1.21	1.09	0.99	0.94	0.91	0.91	0.92	0.94	0.95	0.95
-130	1.59	1.56	1.50	1.42	1.33	1.24	1.15	1.07	1.00	0.96	0.93	0.91	0.91	0.92	0.93	0.94	0.95	0.95
-120	1.06	1.05	1.04	1.01	0.99	0.96	0.94	0.92	0.91	0.91	0.91	0.91	0.92	0.93	0.94	0.95	0.95	0.95
-110	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.93	0.93	0.94	0.94	0.95	0.95	0.95
-100	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.95	0.95	0.95
-90	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
-80	1.71	1.70	1.67	1.63	1.57	1.50	1.43	1.35	1.27	1.22	1.17	1.12	1.09	1.06	1.03	1.01	0.99	0.95
-70	4.66	4.59	4.46	4.28	4.03	3.75	3.43	3.09	2.74	2.41	2.08	1.78	1.53	1.32	1.17	1.08	1.02	0.95
-60	9.19	9.01	8.69	8.26	7.72	7.12	6.45	5.75	5.04	4.32	3.62	2.95	2.33	1.81	1.43	1.18	1.05	0.95
-50	17.4	16.8	15.8	14.6	13.2	11.8	10.4	9.04	7.80	6.61	5.46	4.37	3.36	2.48	1.77	1.31	1.09	0.95
-40	39.3	36.6	32.8	28.3	24.0	19.9	16.5	13.6	11.2	9.18	7.42	5.86	4.44	3.20	2.17	1.47	1.12	0.95
-30	113	100	82.7	64.6	48.5	36.0	26.9	20.3	15.6	12.1	9.42	7.27	5.45	3.86	2.55	1.63	1.15	0.95
-20	338	284	215	150	101	66.3	43.6	29.4	20.8	15.1	11.3	8.48	6.27	4.41	2.87	1.76	1.18	0.95
-10	779	626	450	293	178	106	62.9	38.8	25.4	17.6	12.7	9.34	6.83	4.77	3.08	1.85	1.19	0.95
0	1085	863	602	379	223	127	72.7	43.3	27.5	18.7	13.3	9.67	7.04	4.90	3.16	1.88	1.20	0.95
10	818	663	471	303	184	108	64.0	39.1	25.5	17.5	12.6	9.23	6.74	4.71	3.05	1.83	1.18	0.95
20	374	312	236	165	108	69.7	44.9	29.7	20.6	14.9	11.0	8.27	6.11	4.30	2.80	1.72	1.16	0.95
30	128	112	91.7	71.1	53.0	38.4	27.8	20.5	15.4	11.7	9.05	6.97	5.22	3.72	2.46	1.57	1.12	0.95
40	43.9	40.3	35.6	30.4	25.3	20.8	16.9	13.6	11.0	8.82	7.01	5.50	4.18	3.02	2.05	1.39	1.08	0.95
50	18.4	17.6	16.4	15.0	13.4	11.9	10.3	8.86	7.51	6.27	5.11	4.03	3.09	2.28	1.64	1.22	1.04	0.95
60	9.17	8.92	8.52	8.03	7.47	6.85	6.18	5.49	4.77	4.05	3.34	2.67	2.06	1.61	1.27	1.07	1.00	0.95
70	4.49	4.40	4.25	4.06	3.82	3.54	3.23	2.91	2.55	2.20	1.86	1.54	1.27	1.09	1.00	0.96	0.96	0.95
80	1.58	1.56	1.52	1.47	1.40	1.33	1.25	1.16	1.07	0.99	0.92	0.86	0.81	0.81	0.84	0.88	0.92	0.95
90	0.66	0.66	0.66	0.66	0.65	0.65	0.64	0.64	0.64	0.63	0.63	0.63	0.62	0.66	0.73	0.80	0.88	0.95
100	0.50	0.51	0.51	0.52	0.52	0.52	0.53	0.53	0.54	0.54	0.55	0.56	0.57	0.62	0.71	0.79	0.87	0.95
110	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.43	0.44	0.46	0.48	0.50	0.52	0.60	0.70	0.79	0.88	0.95
120	0.54	0.53	0.51	0.49	0.47	0.45	0.44	0.42	0.42	0.42	0.43	0.44	0.48	0.59	0.70	0.80	0.88	0.95
130	1.05	1.02	0.96	0.89	0.80	0.71	0.63	0.55	0.49	0.45	0.42	0.42	0.50	0.60	0.71	0.81	0.89	0.95
140	1.99	1.92	1.80	1.63	1.44	1.23	1.03	0.84	0.68	0.56	0.48	0.48	0.55	0.64	0.73	0.82	0.90	0.95
150	3.01	2.92	2.75	2.52	2.24	1.91	1.58	1.26	0.97	0.74	0.65	0.62	0.63	0.69	0.77	0.84	0.91	0.95
160	3.67	3.58	3.44	3.22	2.91	2.54	2.11	1.69	1.36	1.09	0.90	0.78	0.74	0.76	0.81	0.87	0.92	0.95
170	3.89	3.84	3.73	3.56	3.32	3.02	2.64	2.21	1.79	1.42	1.14	0.96	0.86	0.83	0.86	0.90	0.93	0.95
180	4.01	3.98	3.95	3.86	3.68	3.39	3.01	2.56	2.09	1.67	1.34	1.11	0.97	0.91	0.92	0.93	0.95	0.95

H(h) Range:-90 - 90DEG

H(h) Interval: 0.5DEG

Test Speed: HIGH

Temperature:30DEG

Operators:Matthew

Test Date:2019-02-27

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.290

Humidity:65.0%

Test Distance:11.510m [K=1.0000]

Remarks: