

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1766.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I <sub>max</sub>	75.7V x 76.1H
	At 50% of I <sub>max</sub>	44.2V x 46.4H
	At 90% of I <sub>max</sub>	20.1V x 20.9H

Beam Flux	Total	1142.7 lumens per klm.
	To 10% of I <sub>max</sub>	1010.9 lumens per klm.
	To 50% of I <sub>max</sub>	640.6 lumens per klm.
	To 90% of I <sub>max</sub>	166.9 lumens per klm.

Upward LOR	0.0 %
Downward LOR	114.3 %

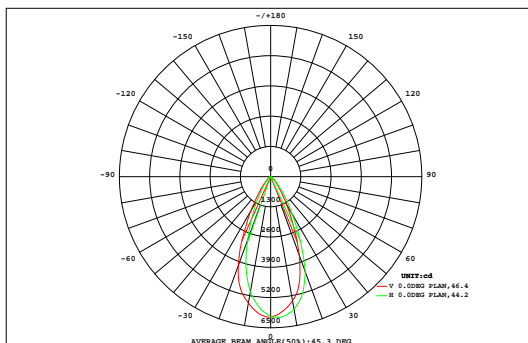
Luminaire Efficiency(Light Output Ratio)	114.2 %
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:E  
Test Date:2018-07-12

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.613m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.80V I:0.3091A P:67.380W PF:0.9918 Freq:49.99Hz Lamp Flux:3436.97x1 lm		
NAME: FM-024-P60	TYPE:Focus	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:58.27lm/W	
MODEL	OSLONG	Imax(cd)	6070
NOMINAL POWER(W)	60	AVAILABILITY(%)	101.2
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	3477
NOMINAL FLUX(lm)	3436.97	LOR(%)	114.2
LAMPS INSIDE	1	TOTAL FLUX(lm)	3926
TEST VOLTAGE(V)	220	θ @50%(H,V)	46,44DEG

		AREA FLUX DIAGRAM															UNIT:lm		Φ t	Φ a		
		0.03	0.09	0.15	0.21	0.27	0.32	0.37	0.40	0.42	0.42	0.40	0.38	0.33	0.28	0.22	0.16	0.09	0.03	4.58	0.00	
VERTICAL (DEG)	90	0.03	0.10	0.19	0.29	0.41	0.54	0.66	0.76	0.83	0.84	0.80	0.72	0.59	0.45	0.32	0.20	0.11	0.03	7.87	0.00	
	80	0.03	0.11	0.23	0.39	0.61	0.84	1.08	1.29	1.42	1.43	1.34	1.15	0.92	0.67	0.43	0.24	0.11	0.03	12.3	0.00	
	70	0.03	0.11	0.25	0.46	0.73	1.14	1.70	2.31	2.72	2.76	2.41	1.82	1.26	0.83	0.53	0.29	0.12	0.03	19.5	0.00	
	60	0.03	0.12	0.29	0.52	1.01	2.03	3.64	5.53	6.97	7.03	5.57	3.67	2.06	1.05	0.57	0.32	0.13	0.03	40.6	0.00	
	50	0.03	0.13	0.32	0.64	1.58	3.89	8.32	14.6	19.9	20.3	15.6	9.06	4.29	1.77	0.73	0.37	0.16	0.03	102	39.9	
	40	0.03	0.16	0.40	0.99	2.95	8.54	21.1	40.5	55.6	55.2	40.1	20.7	8.28	2.88	1.00	0.44	0.19	0.04	259	225	
	30	0.04	0.19	0.48	1.34	4.36	14.4	40.3	83.7	117	118	87.0	43.7	15.9	4.88	1.54	0.56	0.23	0.05	534	508	
	-30	0.04	0.21	0.58	1.81	6.25	21.7	65.4	132	166	164	126	62.4	20.5	5.97	1.81	0.63	0.25	0.05	776	752	
		0.04	0.21	0.56	1.75	6.04	21.2	67.5	138	176	177	143	74.6	23.9	6.88	2.03	0.68	0.27	0.05	839	815	
		0.04	0.20	0.53	1.63	5.48	18.7	54.5	113	153	152	112	52.7	17.8	5.33	1.63	0.59	0.24	0.05	689	665	
		0.03	0.17	0.41	1.08	3.38	10.6	28.3	58.9	86.1	87.9	63.1	31.8	12.1	3.93	1.27	0.50	0.21	0.04	390	360	
		0.03	0.15	0.34	0.75	2.05	5.59	12.8	23.8	32.6	32.5	23.8	12.5	5.47	2.04	0.78	0.38	0.17	0.04	156	111	
0.03		0.12	0.27	0.48	1.01	2.24	4.44	7.49	10.1	10.4	8.25	5.03	2.57	1.19	0.58	0.33	0.14	0.03	54.7	0.00		
0.03		0.11	0.24	0.41	0.65	1.12	1.85	2.66	3.30	3.30	2.68	1.91	1.20	0.73	0.47	0.27	0.12	0.03	21.1	0.00		
0.02		0.09	0.19	0.34	0.50	0.67	0.88	1.12	1.29	1.32	1.22	1.01	0.80	0.60	0.41	0.23	0.10	0.03	10.8	0.00		
-70	0.02	0.08	0.15	0.25	0.36	0.49	0.61	0.70	0.77	0.79	0.76	0.68	0.56	0.42	0.28	0.17	0.08	0.02	7.19	0.00		
-80	0.02	0.06	0.10	0.15	0.21	0.26	0.32	0.36	0.39	0.40	0.38	0.34	0.29	0.23	0.17	0.11	0.06	0.02	3.86	0.00		
-90	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL( DEG )					20	30	40	50	60	70	80	90	
Φ t	0.54	2.40	5.68	13.5	37.8	114	314	627	834	834	635	324	119	40.1	14.8	6.46	2.80	0.63	3926	---		
Φ a	0.00	0.00	0.00	0.00	0.00	63.1	275	591	799	799	598	285	67.6	0.00	0.00	0.00	0.00	0.00	0.00	---	3477	

one-half-peak spread: U:20.9,D:23.6 , L:23.3,R:23.3

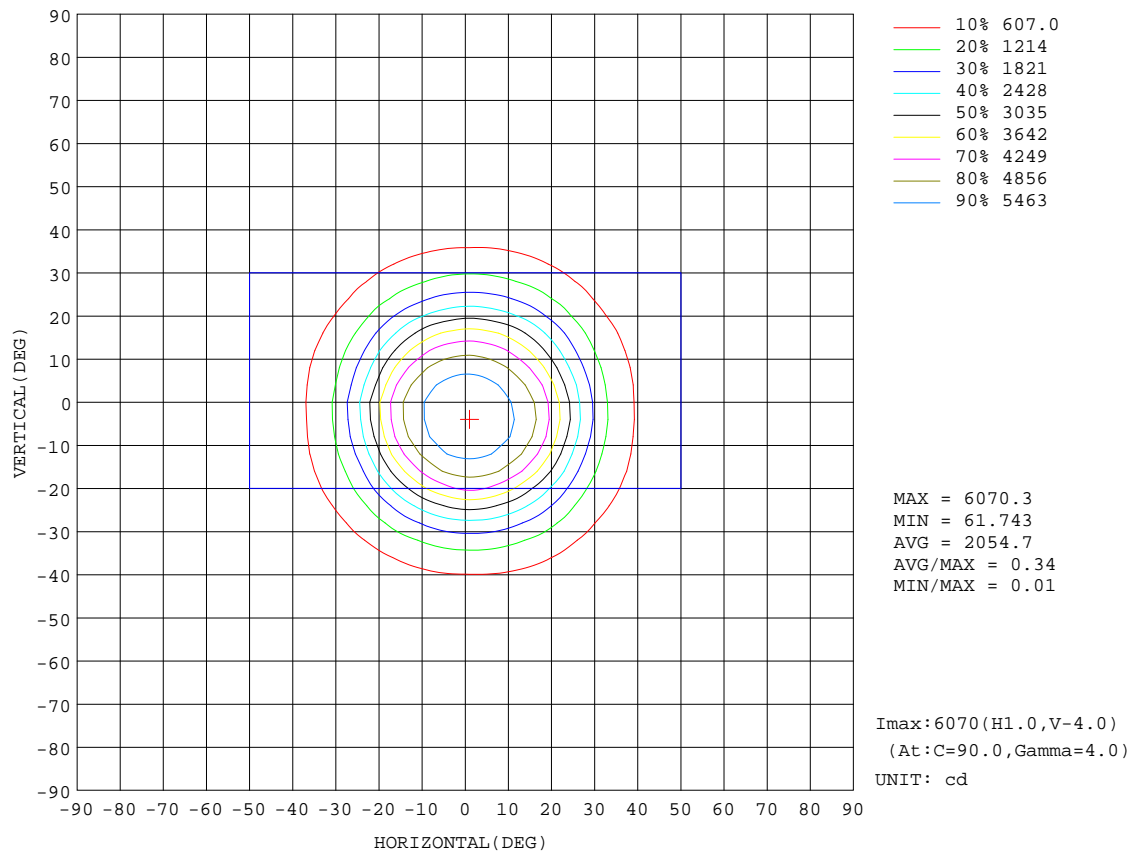
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:E  
Test Date:2018-07-12

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.613m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:219.80V I:0.3091A P:67.380W PF:0.9918 Freq:49.99Hz Lamp Flux:3436.97x1 lm		
NAME: FM-024-P60	TYPE:Focus	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

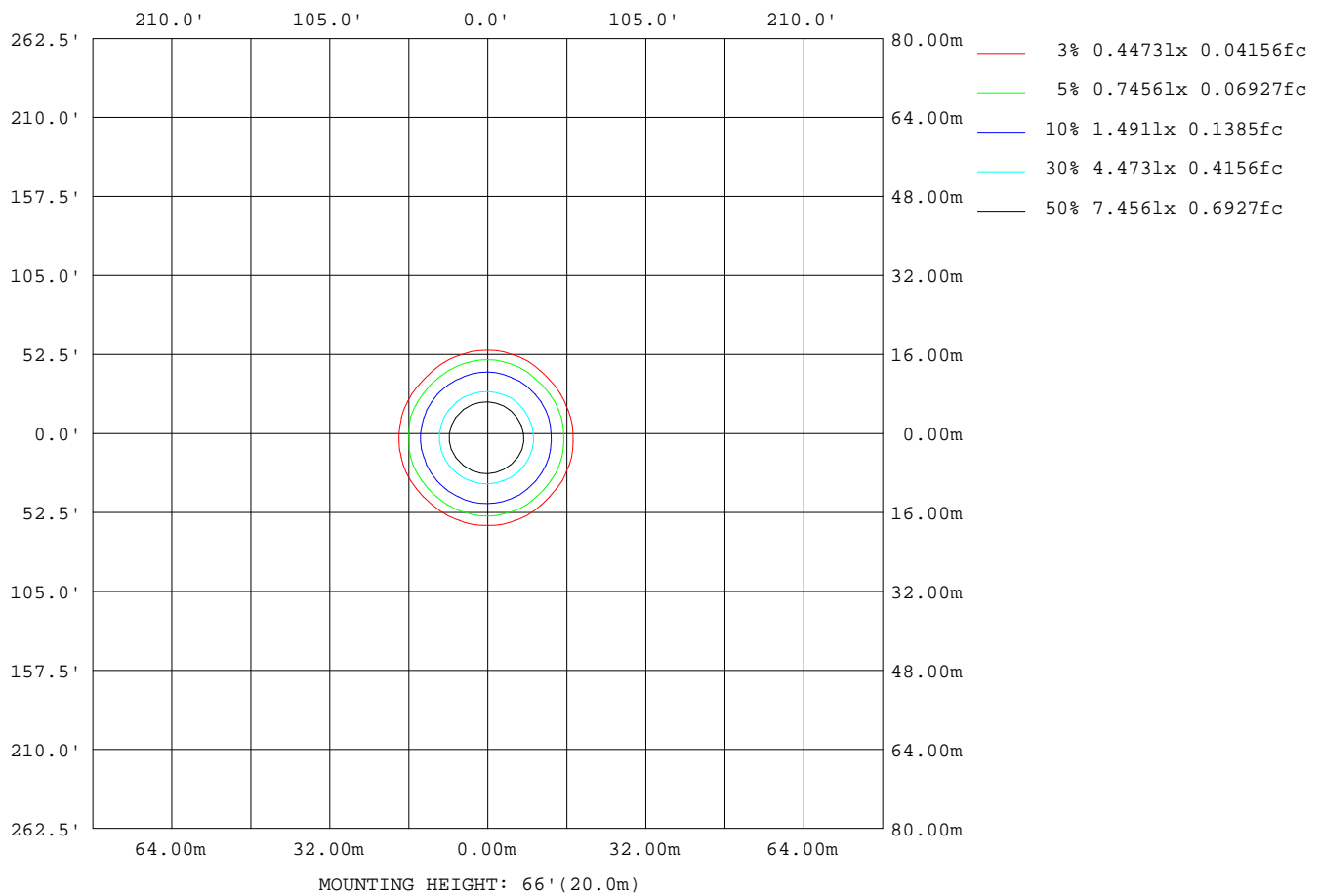


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:E  
Test Date:2018-07-12

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.613m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

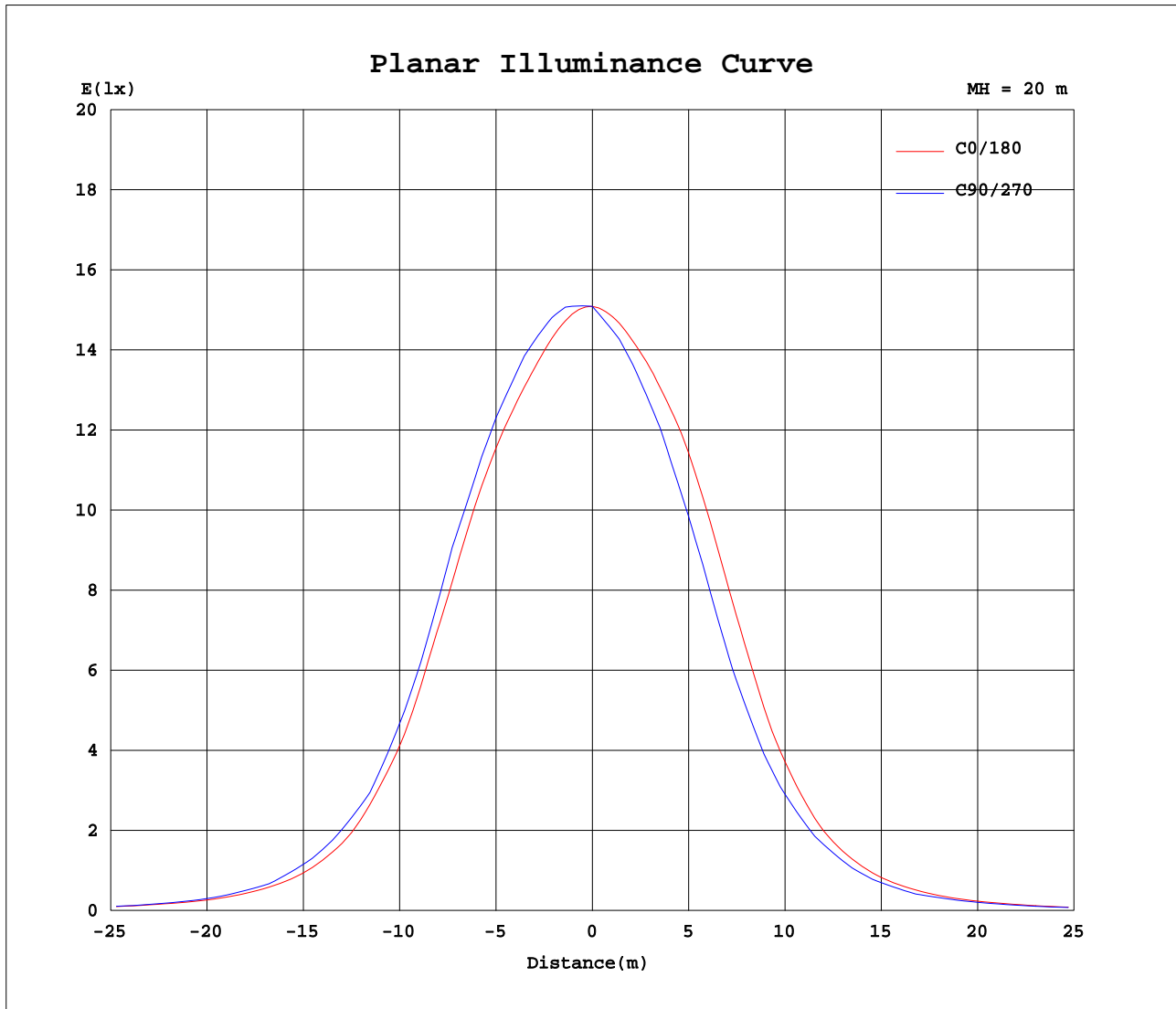
Test:U:219.80V I:0.3091A P:67.380W PF:0.9918 Freq:49.99Hz Lamp Flux:3436.97x1 lm		
NAME: FM-024-P60	TYPE:Focus	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:E  
Test Date:2018-07-12

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.613m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



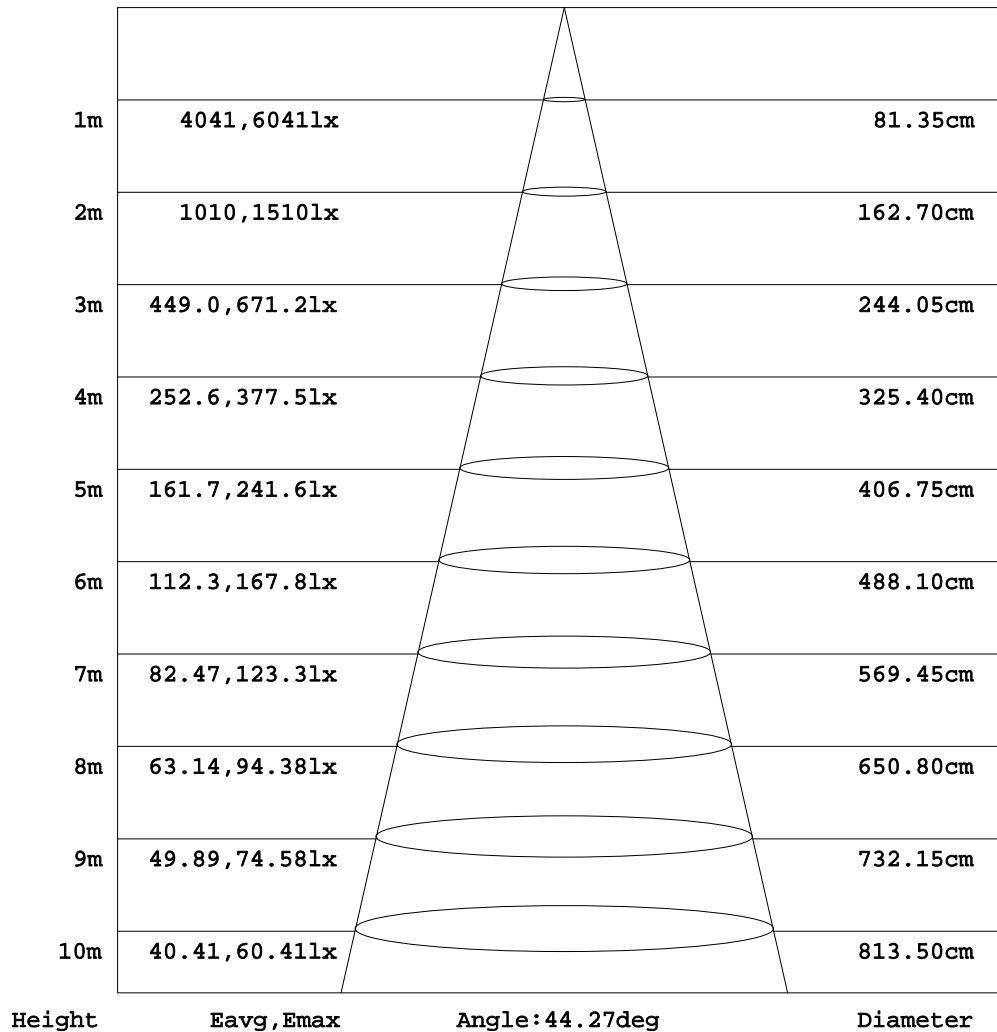
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:E  
Test Date:2018-07-12

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.613m [K=1.0000]  
Remarks:

### AAI Figure

Test:U:219.80V I:0.3091A P:67.380W PF:0.9918 Freq:49.99Hz Lamp Flux:3436.97x1 lm		
NAME: FM-024-P60	TYPE:Focus	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:2178 lm



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

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:E  
Test Date:2018-07-12

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.613m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.80V I:0.3091A P:67.380W PF:0.9918 Freq:49.99Hz Lamp Flux:3436.97x1 lm		
NAME: FM-024-P60	TYPE:Focus	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	6.40	6.14	6.07	6.12	6.25	6.35	6.44	6.53	6.65	6.78	6.99	7.22	7.41	7.58	7.75	7.88	7.98	8.05	8.11
-85	6.54	6.51	6.62	6.89	7.35	7.71	8.02	8.35	8.70	9.08	9.47	9.86	10.2	10.6	10.9	11.2	11.4	11.6	11.7
-80	6.72	7.07	7.43	8.27	8.93	9.58	10.3	11.0	11.8	12.6	13.5	14.4	15.3	16.1	16.9	17.6	18.2	18.7	19.1
-75	7.02	7.46	8.21	9.13	10.0	10.9	11.9	13.0	14.3	15.6	16.9	18.2	19.5	20.6	21.8	22.8	23.7	24.4	24.9
-70	7.67	8.45	9.64	10.8	12.1	13.6	15.3	17.2	19.1	20.9	22.6	24.2	25.7	27.1	28.4	29.5	30.5	31.3	31.8
-65	7.90	8.85	10.1	11.5	13.2	15.1	17.2	19.3	21.3	23.2	25.0	26.6	28.3	30.2	33.3	35.7	37.4	39.1	39.8
-60	7.94	8.71	10.2	11.9	13.8	16.3	18.7	21.0	23.1	25.1	27.1	30.8	36.3	41.8	47.3	54.1	58.5	62.3	63.9
-55	8.02	8.88	10.5	12.4	14.7	17.4	20.0	22.2	24.3	27.0	31.6	38.5	48.0	57.3	67.6	77.7	87.6	94.4	96.3
-50	8.33	9.92	11.9	14.4	17.5	20.3	22.7	24.9	29.0	37.1	48.5	62.8	80.4	104	124	145	168	183	191
-45	8.39	10.2	12.4	15.3	18.6	21.6	24.0	27.1	34.2	46.2	64.7	88.4	118	153	191	236	273	295	302
-40	8.25	9.78	12.2	15.5	19.3	22.7	25.6	30.0	40.4	58.4	87.6	122	176	243	328	417	504	575	596
-35	8.29	10.0	12.8	16.6	20.8	24.5	27.9	34.9	50.7	74.2	113	171	261	362	504	662	807	929	985
-30	8.84	11.7	15.5	20.5	25.2	29.6	36.4	53.2	81.1	130	209	335	496	736	1032	1342	1614	1780	1816
-25	8.91	12.1	16.4	21.9	27.2	32.3	42.0	63.3	99.1	163	264	436	673	1028	1490	1964	2370	2665	2740
-20	8.26	11.1	15.6	21.7	28.0	34.2	43.7	66.3	108	174	297	504	825	1318	2005	2765	3513	4047	4357
-15	8.29	11.3	16.1	22.6	29.5	36.5	48.0	74.3	121	198	343	603	983	1596	2494	3471	4313	4884	5100
-10	9.25	13.6	19.6	27.1	34.7	43.1	65.0	104	170	289	507	881	1524	2468	3711	4767	5412	5733	5793
-5	9.33	13.7	19.8	27.5	35.4	44.3	67.4	107	179	302	523	928	1636	2688	3969	5006	5560	5914	6011
0	8.47	12.0	17.4	24.8	32.7	41.2	57.5	91.1	147	254	434	759	1341	2302	3589	4744	5418	5817	6029
5	8.59	12.0	17.2	24.4	32.0	40.2	55.2	87.4	141	240	413	730	1229	2105	3237	4443	5173	5569	5745
10	9.56	13.6	19.3	26.3	33.5	41.3	60.5	96.9	155	261	457	793	1290	2064	3034	4002	4672	5003	5035
15	9.46	13.2	18.4	25.0	31.6	38.5	54.3	85.6	137	225	389	671	1073	1695	2444	3225	3881	4224	4310
20	8.61	11.2	15.1	20.6	26.4	32.1	39.3	57.6	90.7	150	240	396	630	973	1470	1964	2406	2713	2900
25	8.51	10.7	14.3	19.2	24.4	29.5	35.0	49.4	75.7	120	194	311	476	724	1041	1396	1719	1959	2053
30	8.74	11.3	14.6	19.1	23.7	27.9	32.8	45.7	67.7	102	156	244	351	491	669	840	989	1110	1143
35	8.52	10.8	13.8	17.8	22.0	26.0	30.0	39.0	55.8	81.9	121	178	252	345	461	566	660	733	748
40	8.05	9.46	11.8	14.8	18.6	22.5	26.0	29.7	37.6	51.4	72.4	102	138	179	228	278	325	361	370
45	8.07	9.32	11.4	14.1	17.6	21.4	25.0	28.5	33.6	43.4	58.2	78.1	102	132	162	192	221	245	257
50	8.52	10.1	12.1	14.6	17.9	21.5	25.2	28.7	32.4	38.6	47.7	60.1	73.9	87.5	103	117	130	135	136
55	8.78	10.2	12.1	14.3	17.1	20.5	24.2	27.7	31.3	35.4	41.0	49.1	58.0	67.0	76.7	85.9	92.0	96.8	97.9
60	9.10	9.88	11.5	13.3	15.3	17.8	20.9	24.4	27.7	31.0	34.3	37.6	40.9	44.5	49.6	54.0	56.5	59.1	60.6
65	9.51	10.2	11.6	13.2	14.9	16.9	19.3	22.2	25.3	28.4	31.3	34.1	36.9	39.6	42.4	44.9	46.6	48.0	48.7
70	10.4	11.1	12.3	13.5	14.8	16.3	17.9	19.7	21.7	24.0	26.3	28.5	30.4	32.2	34.0	35.4	36.6	37.4	37.8
75	10.7	11.2	12.1	13.1	14.0	15.1	16.2	17.5	18.8	20.1	21.6	23.0	24.3	25.6	26.8	27.8	28.6	29.2	29.6
80	11.0	11.3	11.6	12.0	12.6	13.1	13.6	14.2	14.7	15.3	15.8	16.3	16.8	17.2	17.6	18.0	18.3	18.5	18.6
85	11.2	11.3	11.4	11.6	11.8	12.0	12.2	12.3	12.6	12.9	13.1	13.3	13.5	13.7	13.9	14.1	14.2	14.3	14.4
90	11.3	11.2	11.1	11.0	10.9	10.9	10.8	10.8	10.7	10.7	10.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:E  
Test Date:2018-07-12

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:7.613m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.80V I:0.3091A P:67.380W PF:0.9918 Freq:49.99Hz Lamp Flux:3436.97x1 lm																		
NAME: FM-024-P60									TYPE:Focus					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: EVERFINE									SUR.:					Shielding Angle:				

Table--2

UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	8.12	8.13	8.09	8.02	7.93	7.82	7.68	7.52	7.36	7.21	7.05	6.87	6.70	6.49	6.39	6.33	6.60	6.63	
-85	11.7	11.6	11.5	11.3	11.1	10.8	10.4	10.0	9.67	9.29	8.92	8.56	8.21	7.86	7.53	7.09	6.94	6.80	
-80	19.3	19.3	19.2	18.8	18.2	17.5	16.6	15.6	14.5	13.5	12.5	11.6	10.8	10.0	9.34	8.67	7.87	7.38	
-75	25.2	25.2	25.1	24.7	24.0	23.1	22.0	20.6	18.9	17.2	15.5	14.0	12.7	11.5	10.5	9.53	8.57	7.79	
-70	32.0	32.0	31.8	31.3	30.4	29.2	27.8	26.2	24.2	22.0	19.4	16.9	14.7	13.0	11.5	10.2	8.96	8.17	
-65	39.6	38.8	38.2	36.2	33.6	31.9	30.5	28.8	26.9	24.6	22.1	19.3	16.6	14.2	12.3	10.7	9.39	8.48	
-60	63.9	61.1	58.6	53.5	47.7	42.7	37.9	33.4	30.5	28.3	25.9	23.3	20.3	17.2	14.4	12.2	10.4	9.04	
-55	96.6	93.1	84.8	75.9	65.5	56.4	47.9	39.5	33.7	29.6	27.2	24.7	21.8	18.6	15.4	12.7	10.7	9.19	
-50	181	165	141	121	102	78.7	62.3	48.3	38.2	31.3	28.0	25.4	22.5	19.0	15.4	12.4	10.4	9.15	
-45	297	273	234	188	148	114	84.9	62.0	46.0	35.6	29.6	26.9	23.9	20.4	16.5	13.1	10.7	9.32	
-40	595	553	476	390	291	215	152	104	73.0	51.5	37.8	30.6	27.7	24.2	20.1	15.7	12.2	9.99	
-35	971	873	759	608	438	313	222	144	95.4	63.5	44.7	34.2	30.1	26.2	21.8	16.9	13.0	10.4	
-30	1751	1547	1272	940	662	439	292	183	113	73.0	49.6	37.0	32.4	27.6	22.2	16.7	12.8	10.5	
-25	2584	2260	1839	1382	918	599	383	232	145	89.7	58.5	42.1	35.4	30.0	24.1	18.0	13.6	10.9	
-20	4232	3805	3110	2350	1618	1026	653	381	224	137	87.6	57.2	42.1	35.9	29.4	22.4	16.4	12.5	
-15	5026	4641	3954	2998	2027	1252	766	453	262	158	99.0	63.8	45.4	38.4	31.3	23.8	17.3	13.1	
-10	5604	5238	4487	3278	2123	1238	731	422	247	147	92.8	61.1	45.7	37.9	30.0	22.1	16.1	12.6	
-5	5778	5387	4724	3574	2317	1362	771	442	259	154	96.8	63.7	47.0	39.0	30.8	22.7	16.5	12.8	
0	5907	5521	4998	4071	2808	1729	971	551	318	192	117	75.2	51.2	42.4	34.3	26.0	18.7	14.0	
5	5628	5287	4707	3781	2595	1609	925	536	307	183	113	72.7	50.1	41.7	33.8	25.7	18.5	13.9	
10	4837	4356	3602	2633	1746	1075	659	371	217	134	84.7	56.4	43.4	36.3	28.9	21.4	15.7	12.4	
15	4105	3649	2953	2183	1461	914	558	326	193	121	76.0	51.9	40.8	34.4	27.5	20.4	15.1	11.9	
20	2813	2560	2183	1687	1170	769	492	298	184	115	73.2	50.0	38.3	33.2	27.2	20.9	15.5	12.0	
25	2015	1860	1569	1219	877	583	387	242	153	96.1	63.1	44.2	35.4	30.7	25.3	19.5	14.5	11.3	
30	1074	951	794	611	443	317	207	137	89.8	61.7	42.9	33.5	29.7	25.3	20.3	15.3	11.8	9.70	
35	721	641	543	432	319	231	159	111	74.0	52.0	38.2	31.4	27.8	23.6	18.9	14.3	11.1	9.21	
40	373	354	311	258	204	158	119	88.4	62.2	46.1	35.4	30.3	26.9	22.9	18.6	14.4	11.2	9.06	
45	254	239	211	180	150	118	91.6	70.0	53.1	40.9	33.3	29.4	25.9	21.8	17.6	13.8	10.9	8.89	
50	135	128	114	101	84.8	71.8	58.2	47.5	39.4	34.1	30.4	26.7	22.7	18.6	14.9	11.9	9.88	8.51	
55	96.7	92.0	85.0	76.0	66.6	57.8	49.5	42.3	37.3	33.3	29.6	25.8	21.7	17.9	14.5	11.9	10.1	8.71	
60	60.3	58.6	56.6	53.8	49.4	45.1	42.2	39.2	36.0	32.5	29.0	25.1	21.3	17.9	15.1	12.8	11.0	9.47	
65	48.8	48.2	47.2	45.8	43.6	41.1	38.6	36.0	33.1	30.0	26.5	23.0	19.8	17.1	14.8	12.8	11.3	9.91	
70	37.9	37.6	37.0	36.0	34.5	32.8	30.8	28.5	25.8	23.1	20.8	18.6	16.8	15.1	13.6	12.3	11.2	10.3	
75	29.8	29.6	29.2	28.4	27.4	26.1	24.6	23.0	21.3	19.7	18.2	16.8	15.6	14.4	13.3	12.4	11.4	10.8	
80	18.7	18.6	18.5	18.3	18.0	17.6	17.2	16.7	16.2	15.6	15.1	14.5	14.0	13.5	13.0	12.4	11.8	11.4	
85	14.4	14.4	14.4	14.3	14.2	14.1	14.0	13.8	13.6	13.4	13.2	13.0	12.7	12.4	12.2	11.9	11.7	11.6	
90	10.6	10.7	10.7	10.7	10.8	10.8	10.9	10.9	11.0	11.0	11.1	11.2	11.2	11.3	11.4	11.5	11.6	11.7	

H( $\beta$ ) Range:-90 - 90DEG

H( $\beta$ ) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:E

Test Date:2018-07-12

V(B) Range:-90 - 90DEG

V(B) Interval: 2.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400

Humidity:65.0%

Test Distance:7.613m [K=1.0000]

Remarks: