

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

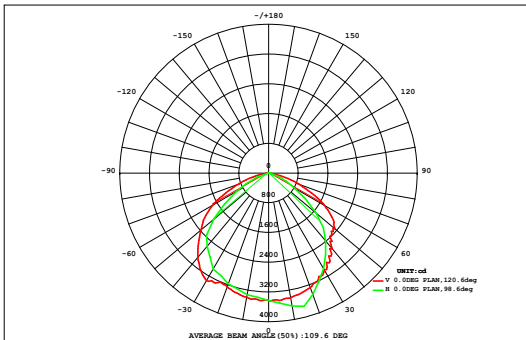
Maximum Intensity		404.3 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	138.2V x 154.2H
	At 50% of Imax	98.6V x 120.6H
	At 90% of Imax	29.9V x 65.8H
Beam Flux	Total	997.9 lumens per klm.
	To 10% of Imax	976.9 lumens per klm.
	To 50% of Imax	766.8 lumens per klm.
	To 90% of Imax	108.9 lumens per klm.
	Upward LOR	0.3 %
	Downward LOR	99.5 %
Luminaire Efficiency (Light Output Ratio)		100.0 %

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2016-10-28

V(B) Range:-120 - 120DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:8.600m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

NAME: ML-WPD-80W-5000K	TYPE:LED	WEIGHT:
SPEC.:48W	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:107.45lm/W	
MODEL	ML-WPD-80W-5000K	Imax (cd)	3744
NOMINAL POWER (W)	48	AVAILABILITY (%)	98.1
RATED VOLTAGE (V)	277	Avai. FLUX (lm)	9083
NOMINAL FLUX (lm)	9262.25	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	9262
TEST VOLTAGE (V)	277	θ @50% (H,V)	121,99DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.07	0.20	0.35	0.53	0.72	0.90	0.93	0.93	0.93	0.94	0.96	0.97	0.99	0.89	0.66	0.41	0.25	0.07	11.7	0.00
90	0.07	0.20	0.35	0.53	0.72	0.90	0.93	0.93	0.93	0.94	0.96	0.97	0.99	0.89	0.66	0.41	0.25	0.07	11.7	0.00
80	0.07	0.25	0.47	0.83	1.25	1.61	1.68	1.67	1.69	1.74	1.78	1.83	1.86	1.71	1.20	0.63	0.33	0.08	20.7	0.00
70	0.07	0.46	1.78	4.40	7.74	11.1	13.3	15.2	16.3	16.5	16.3	15.0	13.0	9.67	5.83	2.77	0.87	0.10	150	117
60	0.07	0.81	3.73	9.48	16.7	23.6	28.4	32.9	35.2	35.7	34.5	30.9	25.8	18.9	11.3	5.32	1.52	0.12	315	308
50	0.08	1.43	7.03	17.5	30.5	42.0	50.7	58.6	62.9	63.3	59.8	52.6	42.2	30.8	18.5	8.82	2.40	0.16	549	546
40	0.10	2.22	10.2	24.6	41.5	55.4	66.5	75.5	80.5	81.0	77.0	68.5	55.7	40.9	24.8	12.2	3.39	0.19	720	718
30	0.11	2.91	12.9	30.3	50.5	68.0	81.1	91.3	97.1	97.8	93.0	82.8	67.4	49.1	30.5	15.3	4.17	0.21	875	873
	0.12	3.39	14.3	33.2	55.9	79.0	93.2	105	112	113	107	93.6	75.2	53.8	34.9	17.6	4.62	0.21	995	994
	0.12	3.61	15.2	34.8	56.3	78.5	91.4	100	106	107	101	89.6	73.0	52.9	36.4	17.8	4.66	0.18	969	968
	0.12	3.64	15.6	35.3	55.8	77.1	89.2	95.6	101	102	96.6	86.0	70.8	52.5	37.4	18.0	4.58	0.15	941	940
	0.09	3.28	14.5	34.0	53.9	73.9	87.0	92.1	97.8	98.3	93.3	83.1	68.1	52.7	37.3	17.6	4.24	0.10	911	910
	0.06	2.71	12.6	30.5	49.6	68.2	81.5	86.2	92.0	92.5	87.5	77.5	62.9	49.7	33.3	14.9	3.43	0.07	845	844
-30	0.03	2.05	10.3	25.8	43.3	60.4	73.8	78.4	84.0	84.4	79.6	70.2	56.3	44.8	28.3	12.1	2.57	0.04	757	755
-40	0.02	1.17	7.21	18.5	33.2	48.9	61.6	66.5	71.5	71.9	67.6	59.6	47.0	36.3	21.6	8.86	1.57	0.02	623	620
-50	0.01	0.57	3.70	10.1	18.9	28.7	37.0	40.5	43.9	44.3	41.6	35.9	28.0	21.1	12.0	4.71	0.69	0.02	372	365
-60	0.01	0.09	1.00	3.35	7.07	11.4	15.5	17.4	19.1	19.5	18.2	15.1	11.7	8.36	4.29	1.51	0.19	0.02	154	127
-70	0.01	0.05	0.26	0.65	1.20	1.78	2.26	2.44	2.66	2.64	2.42	1.98	1.56	1.07	0.53	0.18	0.04	0.01	21.7	0.00
-80	0.01	0.03	0.06	0.08	0.10	0.12	0.14	0.15	0.15	0.16	0.17	0.17	0.16	0.15	0.13	0.09	0.06	0.01	1.95	0.00
-90	0.01	0.03	0.06	0.08	0.10	0.12	0.14	0.15	0.15	0.16	0.17	0.17	0.16	0.15	0.13	0.09	0.06	0.01	1.95	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	1.18	28.9	131	314	524	731	875	960	1025	1032	978	865	702	525	339	159	39.6	1.77	9232	---
Φ a	0.00	17.2	121	303	514	721	867	952	1017	1024	971	858	694	516	329	149	29.0	0.00	---	9083

one-half-peak spread: U:65.9,D:33.1 , L:30.5,R:51.5 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2016-10-28  
V(B) Range:-120 - 120DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:8.600m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

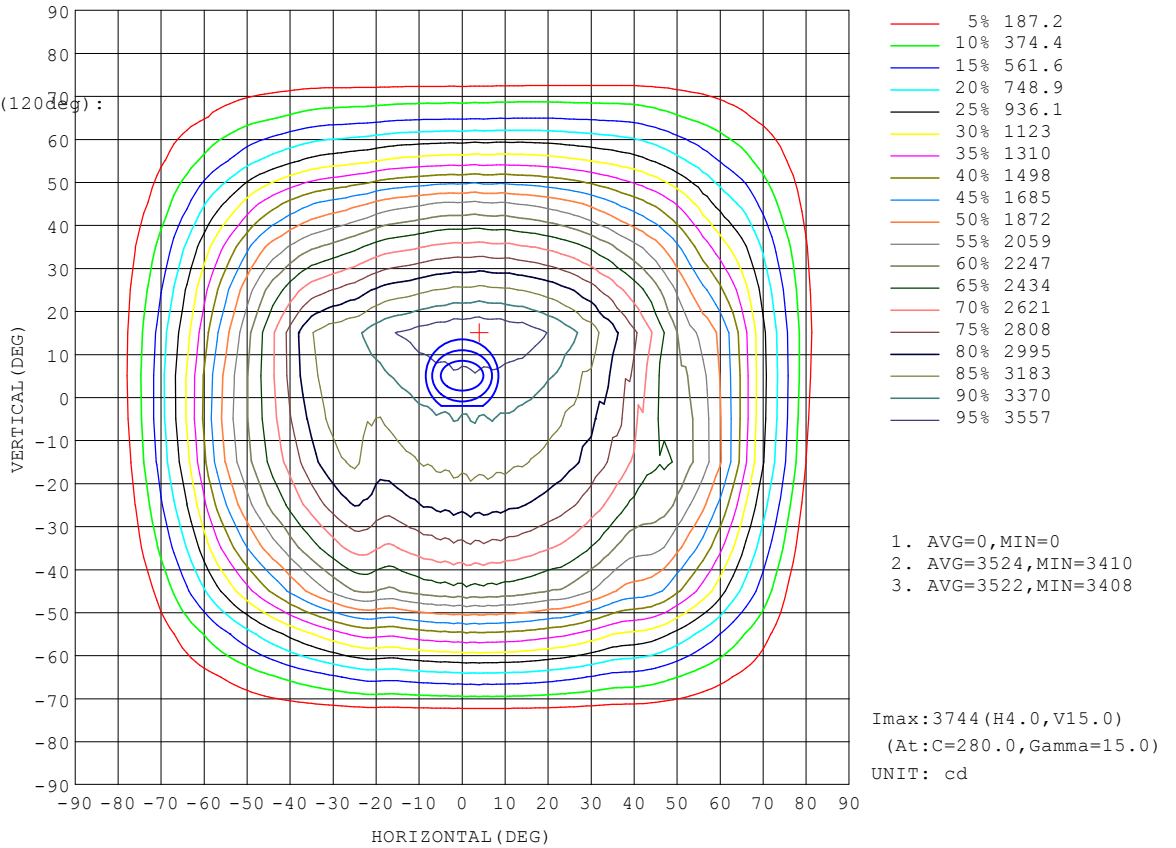
NAME: ML-WPD-80W-5000K	TYPE:LED	WEIGHT:
SPEC.:48W	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

5518.7 lm  
 %lum = 59.7%  
 %lamp = 59.6%

Conical surface Flux(120deg):

7970.6 lm  
 %lum = 86.2%  
 %lamp = 86.1%

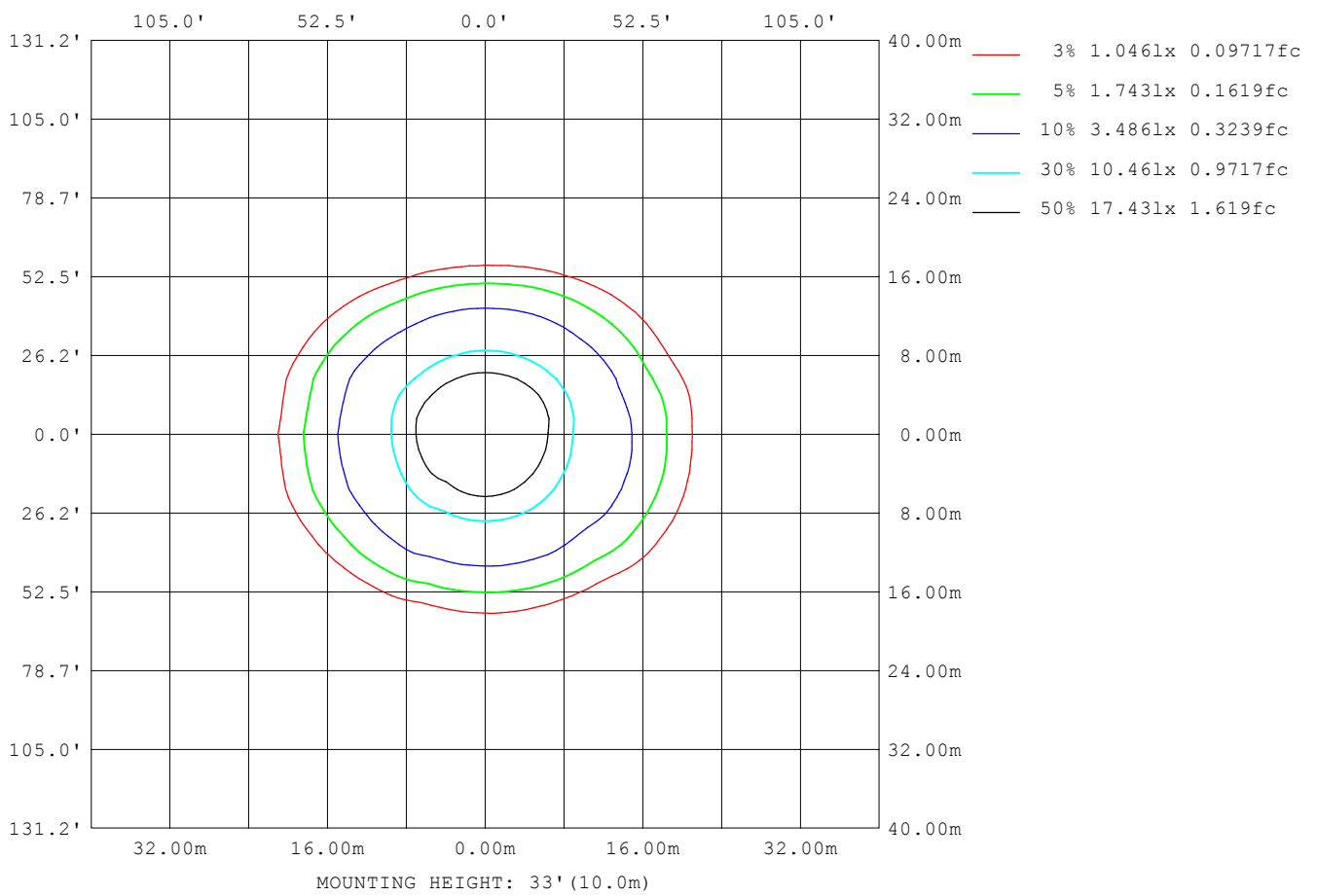


H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2016-10-28

V(B) Range:-120 - 120DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:8.600m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

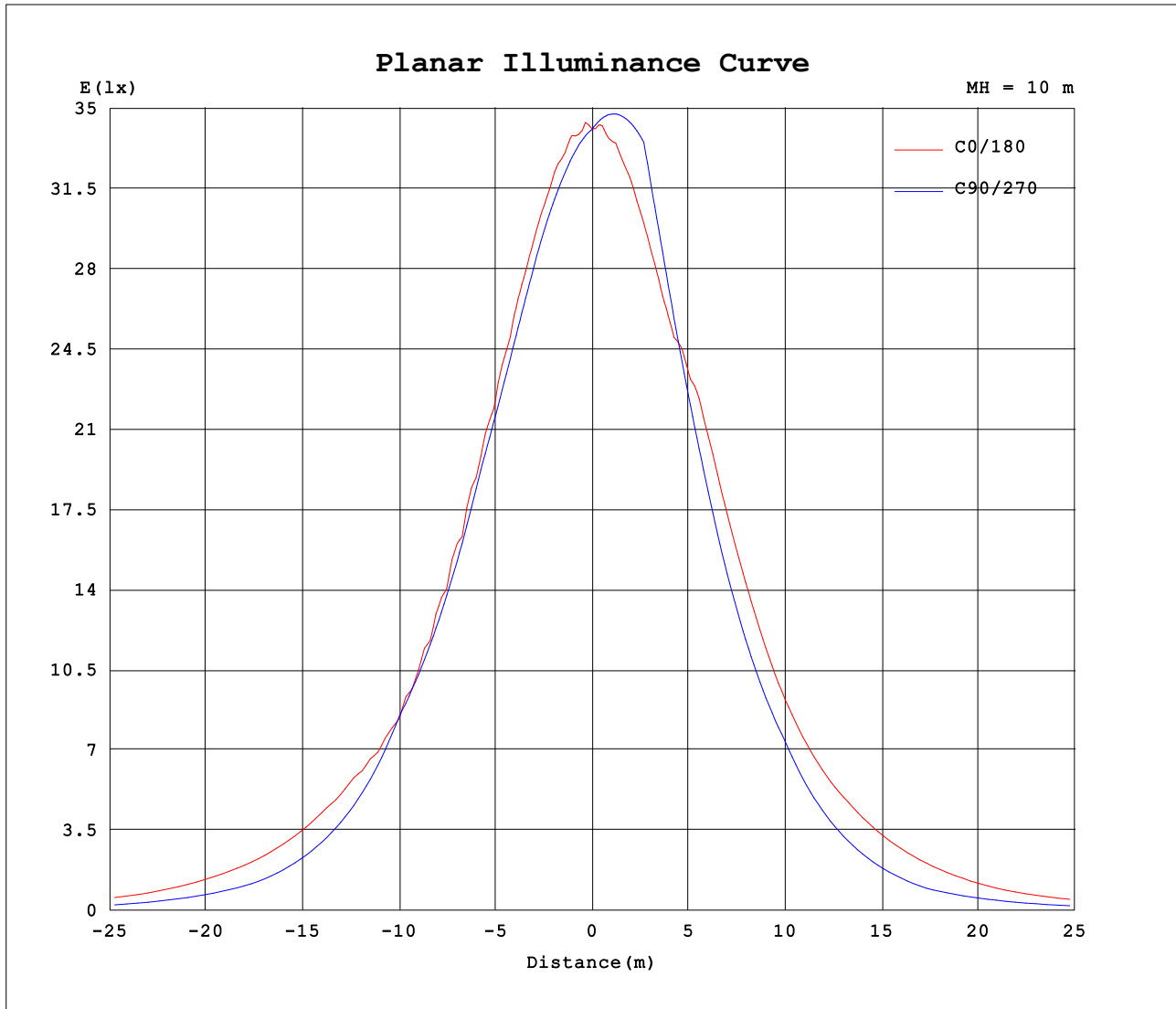
NAME: ML-WPD-80W-5000K	TYPE:LED	WEIGHT:
SPEC.:48W	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2016-10-28

V(B) Range:-120 - 120DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:8.600m [K=1.0000]  
Remarks:

**Planar Illuminance Curve**

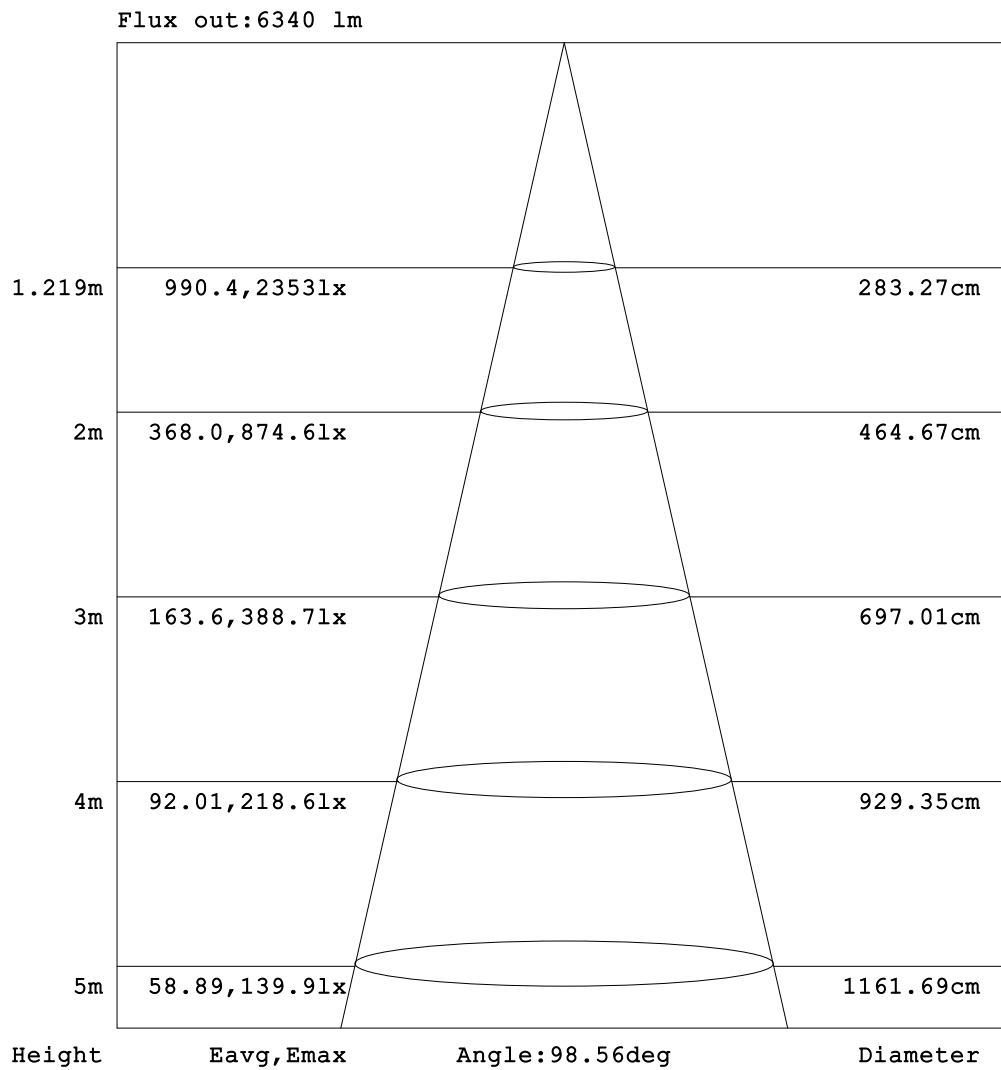


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2016-10-28

V(B) Range:-120 - 120DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:8.600m [K=1.0000]  
Remarks:

**AAI Figure**

NAME: ML-WPD-80W-5000K	TYPE:LED	WEIGHT:
SPEC.:48W	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



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: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2016-10-28

V(B) Range:-120 - 120DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:8.600m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: ML-WPD-80W-5000K	TYPE:LED	WEIGHT:
SPEC.:48W	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-120	3.19	4.80	6.37	7.15	8.11	9.30	10.4	11.4	12.8	13.8	14.8	15.8	16.7	17.5	18.0	18.5	18.8	19.0	19.2
-110	2.46	3.97	5.45	5.96	6.63	7.25	7.92	8.64	9.20	9.63	10.0	10.4	10.7	11.0	11.2	11.3	11.4	11.5	11.7
-100	1.85	3.30	4.71	4.92	5.34	5.76	6.06	6.44	6.53	6.54	6.52	6.50	6.50	6.49	6.43	6.38	6.33	6.31	6.44
-90	1.39	2.79	4.13	4.02	4.24	4.81	4.83	4.82	4.78	4.53	4.30	4.17	4.02	3.92	3.76	3.66	3.55	3.53	3.54
-80	1.55	2.79	3.96	4.15	4.38	4.67	4.64	4.56	4.64	4.80	5.07	5.50	5.89	6.14	6.25	6.31	6.40	6.49	6.72
-70	2.12	3.21	4.37	8.87	26.1	52.5	83.4	116	153	189	223	254	285	311	311	318	330	337	341
-60	3.11	4.05	5.36	18.2	69.4	148	241	340	449	557	659	750	840	918	919	938	974	995	1006
-50	4.53	5.27	12.0	96.6	253	442	639	848	1049	1238	1420	1584	1725	1821	1790	1828	1882	1911	1921
-40	5.94	6.38	33.9	197	436	704	1004	1304	1572	1802	2023	2219	2386	2482	2412	2464	2530	2560	2580
-30	7.32	7.37	71.0	321	619	933	1337	1707	2017	2247	2467	2653	2823	2899	2787	2847	2916	2943	2984
-20	8.33	8.58	114	395	730	1087	1546	1915	2204	2448	2679	2894	3055	3058	2983	3050	3101	3129	3173
-10	9.67	10.4	151	452	810	1202	1681	2048	2323	2587	2845	3073	3227	3176	3141	3214	3260	3287	3321
0	11.4	12.8	183	490	860	1277	1740	2106	2374	2667	2965	3189	3340	3253	3261	3338	3394	3417	3429
10	13.3	16.1	177	464	822	1191	1635	2009	2344	2666	2986	3214	3315	3337	3433	3501	3562	3602	3628
20	14.8	18.9	161	418	745	1089	1496	1868	2218	2521	2801	2990	3073	3160	3286	3342	3403	3450	3471
30	16.1	21.2	136	350	629	974	1323	1683	1995	2232	2409	2516	2613	2724	2822	2862	2918	2959	2959
40	15.6	22.8	96.9	244	452	713	993	1259	1521	1716	1871	1979	2054	2145	2243	2291	2339	2378	2388
50	16.9	24.1	64.5	153	287	457	648	823	1009	1148	1267	1358	1409	1469	1546	1591	1625	1653	1664
60	20.1	25.2	38.7	77.9	135	206	289	375	462	528	597	652	677	695	731	760	775	783	787
70	21.0	25.5	31.9	47.5	68.0	93.3	125	158	190	215	241	261	267	273	282	291	296	299	299
80	21.1	25.4	27.0	29.5	31.0	32.3	35.9	40.8	44.1	47.3	50.8	51.4	49.8	48.4	45.4	45.2	44.4	44.6	43.3
90	20.3	24.7	24.1	23.9	23.5	23.2	23.3	23.6	23.7	23.5	24.9	24.8	24.1	22.7	21.7	21.7	21.3	20.9	20.2
100	18.7	22.9	21.8	21.2	19.7	18.4	17.2	16.3	15.5	14.9	14.9	14.5	13.9	13.2	12.6	12.4	12.2	11.9	11.4
110	17.1	20.8	19.9	19.2	17.9	16.4	15.4	14.6	14.2	13.8	13.6	13.5	13.4	13.4	13.3	13.2	13.2	13.0	12.7
120	15.5	18.4	18.3	17.8	18.1	17.4	18.0	18.7	19.5	20.3	21.1	21.9	22.6	23.2	23.7	24.1	24.3	24.2	24.0
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2016-10-28

V(B) Range:-120 - 120DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:8.600m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: ML-WPD-80W-5000K	TYPE:LED	WEIGHT:
SPEC.:48W	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-120	19.1	18.9	18.3	17.7	17.6	16.6	15.2	13.9	13.0	11.9	11.1	10.3	9.51	8.64	7.85	6.25	2.74	0.99
-110	11.8	11.8	11.6	11.4	11.4	11.0	10.5	10.1	9.81	9.20	8.85	8.64	8.44	8.22	8.02	6.67	2.68	0.62
-100	6.63	6.85	6.94	6.98	7.08	7.04	7.11	7.30	7.44	7.32	7.38	7.37	7.53	7.73	7.98	6.97	2.65	0.33
-90	3.72	4.05	4.30	4.44	4.62	4.79	5.07	5.44	5.84	6.27	6.72	6.52	6.80	7.19	7.73	7.16	2.65	0.12
-80	6.91	7.14	7.37	7.63	7.78	7.80	8.03	8.17	8.25	8.25	8.13	7.73	7.57	7.25	7.47	7.31	2.96	0.61
-70	343	338	329	314	295	270	251	242	213	177	138	103	68.2	33.4	11.1	7.58	3.66	1.47
-60	1013	996	969	925	865	791	735	706	621	513	396	294	189	85.6	18.6	7.98	4.73	2.72
-50	1916	1896	1850	1799	1717	1601	1472	1430	1320	1128	919	691	482	276	84.1	9.18	6.32	4.79
-40	2559	2540	2484	2422	2326	2191	2021	1954	1862	1627	1363	1047	734	454	169	14.8	7.58	6.72
-30	2943	2926	2872	2795	2690	2561	2381	2280	2247	2011	1727	1363	947	621	274	24.9	8.49	8.49
-20	3150	3112	3067	2994	2898	2758	2596	2430	2388	2214	1967	1607	1128	738	378	55.1	9.13	9.57
-10	3316	3273	3226	3156	3059	2905	2765	2557	2433	2321	2086	1731	1237	816	447	86.1	10.3	10.6
0	3439	3408	3349	3280	3172	3001	2889	2663	2381	2331	2083	1735	1274	854	480	118	12.0	11.6
10	3624	3584	3524	3435	3300	3112	2943	2704	2416	2212	2012	1703	1249	840	477	137	14.3	13.1
20	3464	3431	3377	3291	3162	2986	2802	2583	2315	2039	1829	1553	1159	786	449	140	16.9	12.4
30	2958	2951	2908	2847	2759	2623	2467	2302	2079	1812	1532	1286	1007	693	395	128	19.8	9.47
40	2370	2357	2320	2260	2180	2062	1923	1797	1626	1415	1177	968	762	515	293	101	21.9	10.2
50	1648	1640	1618	1576	1518	1439	1346	1261	1136	985	814	658	514	345	200	75.9	23.9	11.5
60	791	800	803	793	772	755	736	693	609	521	443	356	264	183	118	52.8	25.7	13.3
70	303	306	308	307	302	299	296	284	256	224	192	153	119	92.1	65.6	39.1	26.7	16.1
80	46.0	46.5	48.0	49.7	52.6	56.1	59.5	61.7	62.4	58.7	52.6	43.0	39.3	39.8	35.0	30.5	27.0	18.3
90	21.3	21.5	21.8	22.0	23.4	25.3	26.8	27.1	26.9	26.4	25.3	24.7	25.4	26.2	26.8	27.0	26.7	19.9
100	11.8	12.1	12.3	12.5	13.2	14.1	14.9	15.4	15.8	16.3	16.8	18.0	19.8	21.7	23.1	24.0	24.6	20.5
110	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.0	13.8	15.0	16.7	18.5	20.2	21.5	21.6	20.0
120	23.8	23.4	23.0	22.4	21.7	20.9	20.0	18.9	17.6	16.5	16.1	15.8	16.1	16.8	17.9	19.4	17.8	18.3
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2016-10-28

V(B) Range:-120 - 120DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:8.600m [K=1.0000]  
Remarks: