

COB High Power Surface Down Light Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	892.2 cd per klm. 0.0 degrees vertical 2.0 degrees horizontal
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Beam Spread	At 10% of Imax	100.2V x 96.3H
	At 50% of Imax	66.3V x 64.8H
	At 90% of Imax	33.8V x 32.6H

Beam Flux	Total	997.8 lumens per klm.
	To 10% of Imax	958.7 lumens per klm.
	To 50% of Imax	681.1 lumens per klm.
	To 90% of Imax	203.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.8 %

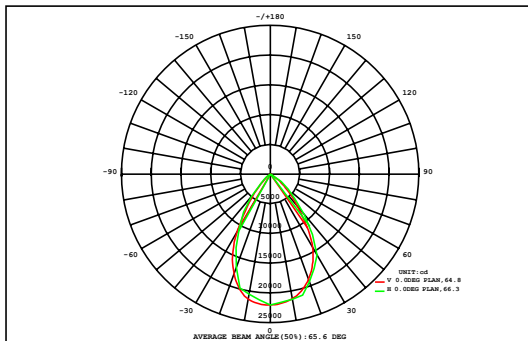
Luminaire Efficiency (Light Output Ratio)	100.0 %
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$H(\beta)$ Range: -90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-12-13

$V(B)$ Range: -75 - 75DEG
 $V(B)$ Interval: 5.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: COB High Power Surface Down Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Adhesion Lighting (Guangdong) Co.,Ltd	SUR.:0.1*0.2	Shielding Angle:



DATA OF LAMP		Eff:113.48lm/W	
MODEL	AD-TG04-200w	Imax (cd)	22006
NOMINAL POWER (W)	200	AVAILABILITY (%)	96.2
RATED VOLTAGE (V)		Avai. FLUX (lm)	23721
NOMINAL FLUX (lm)	24664.4	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	24671
TEST VOLTAGE (V)	0	θ @50% (H,V)	65,66DEG

AREA FLUX DIAGRAM																	UNIT: lm		Φ t	Φ a			
90	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	0.00	0.00	0.00	0.00
80	0.00	0.01	0.08	0.14	0.05	0.25	0.25	0.27	0.29	0.29	0.27	0.33	0.36	0.10	0.18	0.00	0.00	0.00	0.00	2.87	0.00		
70	0.00	0.07	0.10	0.09	0.16	0.40	0.64	0.89	1.01	1.00	0.87	0.77	0.59	0.31	0.17	0.04	0.00	0.00	7.12	0.00			
60	0.01	0.09	0.07	0.11	0.40	2.16	9.10	14.8	17.8	16.7	12.1	5.61	1.02	0.51	0.19	0.05	0.00	0.00	80.7	0.00			
50	0.03	0.04	0.07	0.37	0.94	9.64	35.8	56.8	67.0	61.2	42.7	17.0	1.90	0.83	0.28	0.02	0.00	0.00	295	87.2			
40	0.03	0.03	0.13	0.66	14.3	55.5	116	179	228	225	171	99.8	41.7	8.78	0.53	0.11	0.00	0.00	1140	1058			
30	0.03	0.02	0.22	3.36	38.2	114	223	329	401	395	312	193	81.0	17.7	0.98	0.16	0.00	0.00	2109	2058			
20	0.03	0.04	0.36	14.4	79.0	199	383	523	594	583	487	305	124	30.7	1.53	0.17	0.00	0.00	3323	3285			
10	0.02	0.05	0.38	17.1	86.8	227	423	563	634	635	559	391	185	52.4	5.42	0.27	0.01	0.00	3780	3743			
0	0.02	0.04	0.39	18.6	94.1	248	445	584	654	662	594	433	206	58.7	5.68	0.29	0.01	0.00	4004	3968			
-10	0.01	0.05	0.49	23.1	101	255	438	566	631	629	542	371	158	39.8	2.53	0.18	0.00	0.00	3757	3720			
-20	0.01	0.04	0.40	13.7	67.5	178	322	453	522	521	441	283	120	30.6	1.66	0.15	0.00	0.00	2954	2912			
-30	0.02	0.02	0.22	4.26	36.3	106	212	324	382	378	308	183	76.0	17.7	0.83	0.09	0.00	0.00	2029	1975			
-40	0.02	0.01	0.16	1.77	16.1	53.6	106	152	175	162	116	57.6	16.4	0.97	0.18	0.00	0.00	0.00	859	768			
-50	0.01	0.03	0.08	0.27	6.53	20.2	37.1	56.0	67.5	60.8	39.4	19.5	5.96	0.57	0.09	0.00	0.00	0.00	314	147			
-60	0.00	0.05	0.02	0.07	0.15	0.20	0.20	1.48	4.28	4.21	1.47	0.45	0.32	0.19	0.04	0.01	0.00	0.00	13.1	0.00			
-70	0.00	0.05	0.08	0.04	0.06	0.10	0.24	1.31	1.42	0.72	0.17	0.17	0.06	0.02	0.08	0.02	0.00	0.00	4.54	0.00			
-80	0.00	0.05	0.08	0.04	0.06	0.10	0.24	1.31	1.42	0.72	0.17	0.17	0.06	0.02	0.08	0.02	0.00	0.00	4.54	0.00			
-90	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	0.00	0.00		
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90						
Φ t	0.23	0.63	3.25	98.1	542	1468	2752	3803	4381	4334	3626	2360	1019	260	20.4	1.56	0.03	0.00	24671	---			
Φ a	0.00	0.00	0.00	30.3	442	1396	2673	3724	4308	4253	3535	2279	938	141	0.00	0.00	0.00	0.00	---	23721			

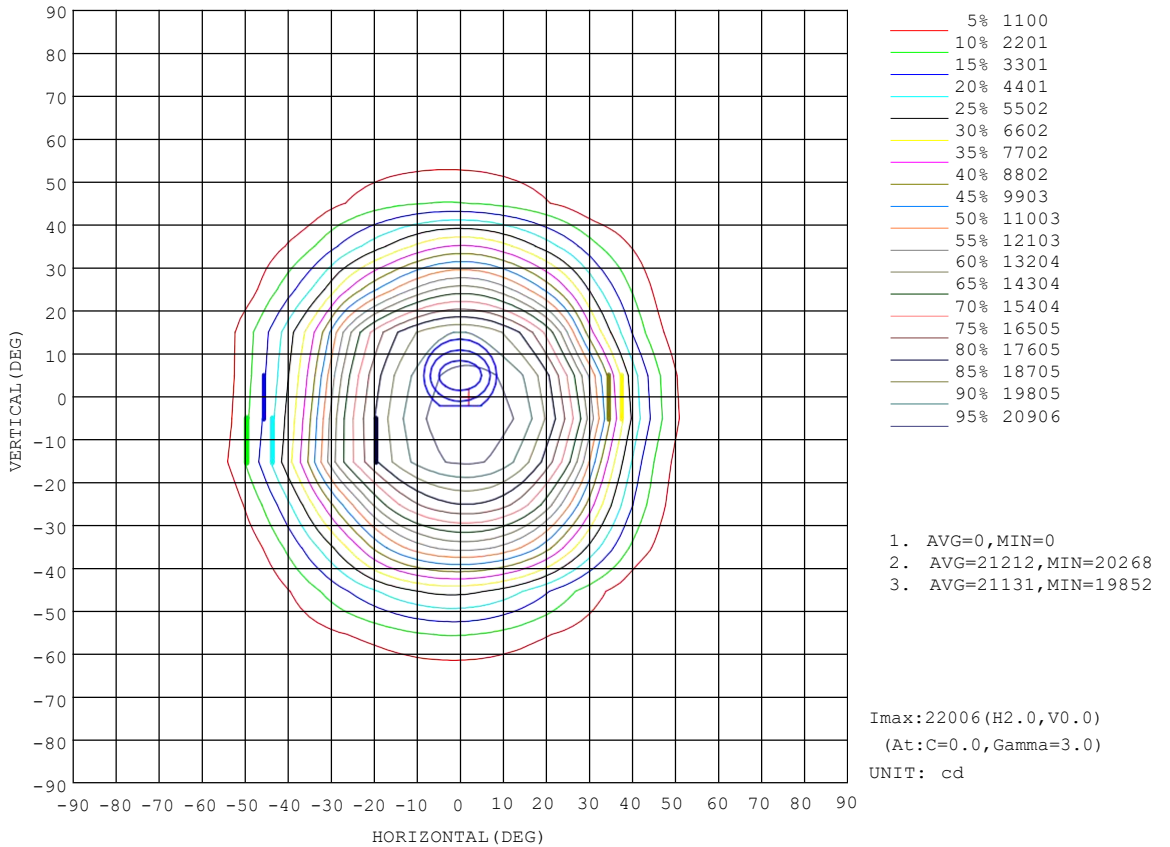
one-half-peak spread: U:37.3,D:29.4 , L:36.7,R:28N.E4MA Beam Type: Type 5 x 6 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-12-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: LED Flood Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Adhesion Lighting (Guangdong) Co.,Ltd	SUR.:0.1*0.2	Shielding Angle:

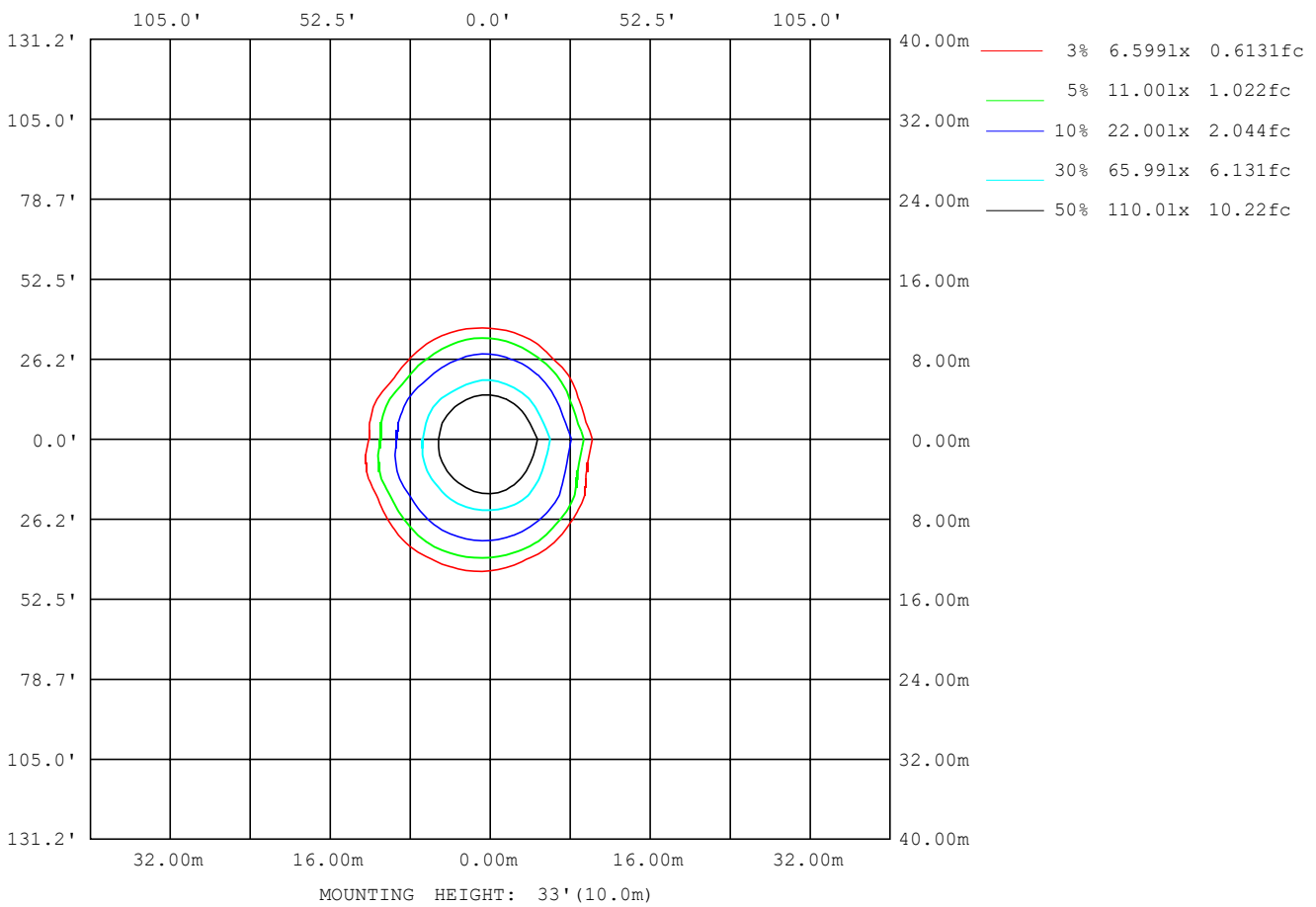


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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

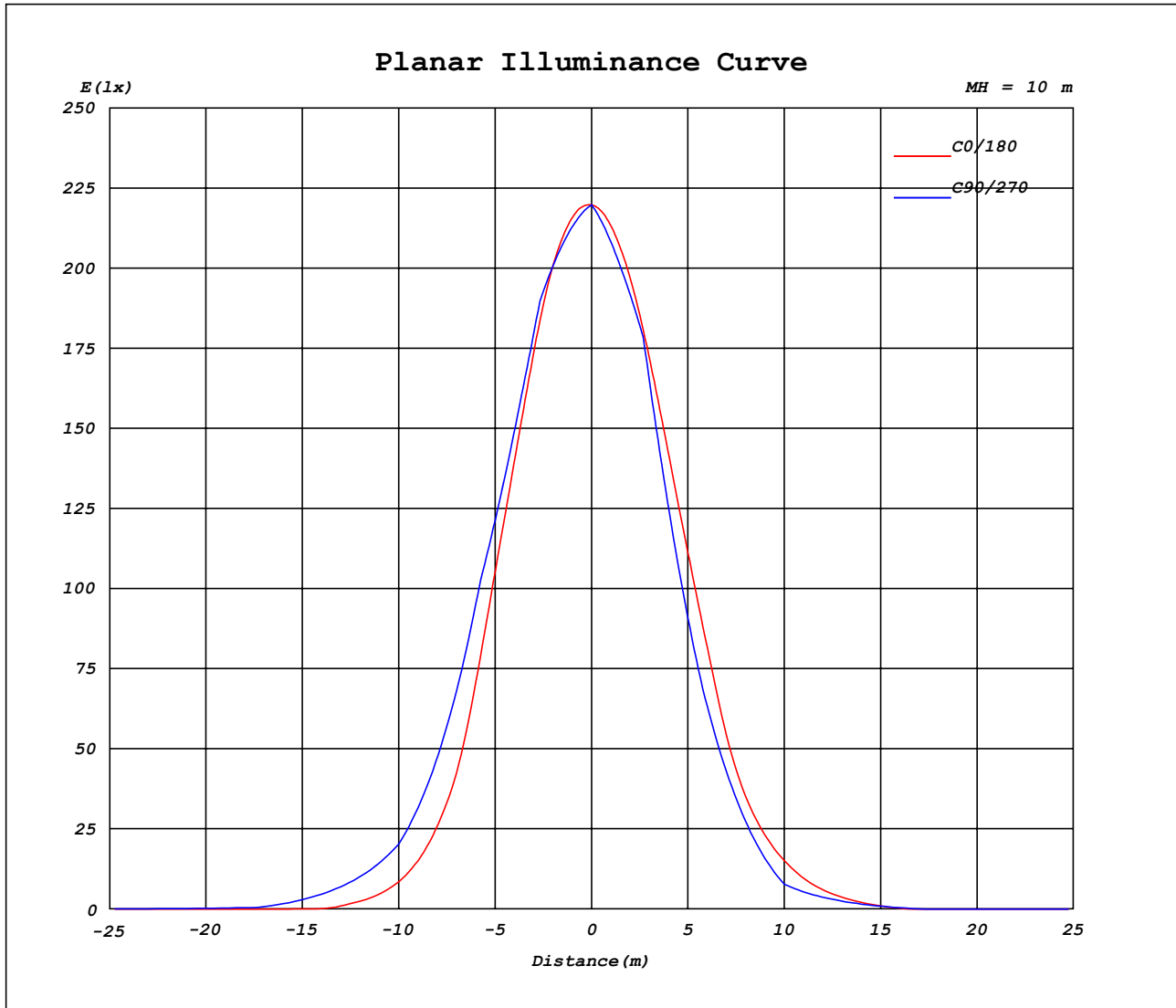
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MFR.: Adhesion Lighting (Guangdong) Co.,Ltd	SUR.:0.1*0.2	Shielding Angle:



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Test Speed: HIGH
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Operators: DAMIN
Test Date: 2022-12-13

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V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



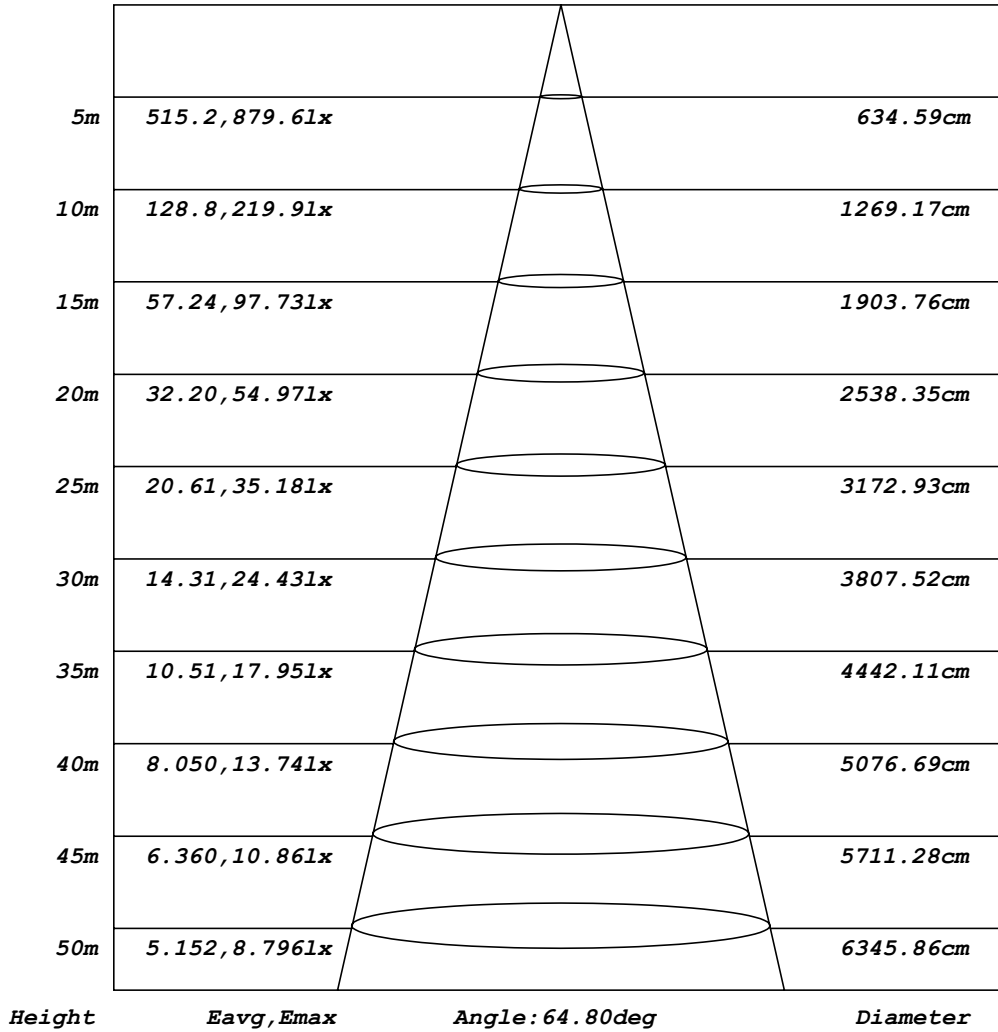
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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-12-13

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V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.000m [K=1.0000]
Remarks:

AAI Figure

NAME: LED Flood Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Adhesion Lighting (Guangdong) Co.,Ltd	SUR.:0.1*0.2	Shielding Angle:

Flux out:16422 lm



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
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 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-12-13

V(B) Range: -75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LED Flood Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Adhesion Lighting (Guangdong) Co.,Ltd	SUR.:0.1*0.2	Shielding Angle:

Table--1

UNIT: ×10cd

H (DEG) \ V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	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
-85	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
-80	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
-75	0.00	0.00	0.00	0.52	0.67	0.88	0.62	0.14	0.00	0.00	0.00	0.00	0.00	0.18	0.40	0.67	0.88	1.01	1.09
-70	0.00	0.00	0.10	0.80	0.05	0.52	0.29	0.32	0.48	0.78	1.04	1.34	1.09	0.68	5.12	11.0	15.2	16.8	15.9
-65	0.00	0.00	0.00	0.81	0.23	0.29	0.21	0.37	0.72	1.13	1.79	2.31	3.27	1.16	3.57	14.3	25.1	31.3	32.4
-60	0.00	0.00	0.30	0.53	0.00	0.00	0.15	0.96	1.45	2.33	3.12	4.01	3.08	1.40	14.2	31.3	43.7	48.3	45.4
-55	0.00	0.00	0.36	0.64	0.00	0.29	0.58	1.42	1.73	10.9	35.9	61.8	90.2	116	145	179	207	223	225
-50	0.00	0.37	0.27	0.18	0.22	0.87	1.96	3.28	4.37	49.8	99.0	153	209	263	317	362	392	403	393
-45	0.00	0.00	1.07	0.00	0.00	0.86	1.75	3.28	3.04	29.3	102	179	261	344	425	494	545	575	578
-40	0.00	0.71	0.17	0.00	0.53	1.62	3.31	11.1	46.7	134	234	346	470	605	728	820	880	909	903
-35	0.00	0.11	1.05	0.00	0.08	1.15	2.67	2.29	44.6	127	243	378	526	702	892	1044	1150	1216	1243
-30	0.00	1.00	0.00	0.00	0.92	2.26	4.18	24.5	128	254	408	584	787	1029	1248	1405	1508	1565	1575
-25	0.00	0.11	0.75	0.02	0.50	1.90	2.74	28.8	116	249	414	619	858	1097	1328	1510	1638	1717	1752
-20	0.30	0.37	0.00	0.54	1.71	3.77	23.2	115	256	434	652	941	1216	1447	1638	1780	1873	1921	1928
-15	0.00	0.00	0.17	0.05	1.27	3.12	1.96	82.9	219	397	616	903	1257	1528	1732	1893	2009	2077	2106
-10	0.30	0.48	0.05	0.65	1.94	4.19	23.3	147	304	506	755	1102	1428	1663	1849	1989	2079	2126	2136
-5	0.00	0.00	0.79	0.02	1.07	2.51	3.76	56.9	191	363	581	861	1234	1532	1754	1930	2053	2127	2163
0	0.00	1.33	0.15	0.32	1.64	3.54	4.57	122	273	472	716	1065	1421	1678	1880	2032	2127	2180	2200
5	0.00	0.38	0.95	0.00	0.99	2.24	4.62	43.4	172	335	541	797	1151	1468	1701	1880	2008	2087	2122
10	0.39	1.27	0.05	0.47	1.63	3.54	4.87	117	257	437	652	939	1286	1551	1747	1896	1995	2046	2048
15	0.00	1.13	0.64	0.00	1.04	2.28	4.52	42.3	163	312	496	712	1009	1337	1572	1745	1873	1955	1983
20	0.39	1.20	0.25	0.36	1.24	2.85	4.31	77.7	179	325	492	703	974	1197	1368	1508	1613	1670	1666
25	0.00	0.61	1.06	0.15	0.35	1.37	2.75	16.5	55.6	158	282	426	607	804	969	1111	1237	1329	1367
30	0.00	1.12	0.75	0.00	0.46	1.48	2.88	4.59	40.5	135	237	355	486	615	742	870	982	1050	1053
35	0.00	0.45	1.27	0.35	0.02	0.68	1.64	3.06	2.10	55.5	118	196	297	399	498	592	683	752	780
40	0.08	1.13	1.03	0.14	0.17	1.03	2.04	3.12	15.9	48.9	82.6	156	233	302	366	426	474	499	494
45	0.00	0.64	1.29	0.62	0.07	0.24	1.18	1.87	2.77	4.24	4.61	20.9	78.7	122	159	190	211	223	221
50	0.08	0.83	1.07	0.55	0.39	0.70	1.16	1.64	2.59	4.07	4.02	38.0	71.9	97.9	120	137	148	150	145
55	0.00	0.21	0.82	0.93	0.93	0.61	0.62	0.76	1.09	1.90	2.37	8.06	27.7	42.7	55.4	65.8	73.2	77.1	76.8
60	0.00	0.22	0.88	1.25	1.11	0.48	0.25	0.17	0.53	1.04	1.45	1.99	2.58	3.19	3.76	4.09	4.30	4.42	4.44
65	0.00	0.00	0.39	0.79	1.07	0.80	0.54	0.49	0.54	0.48	1.16	1.54	1.90	2.28	2.67	3.04	3.18	3.34	3.37
70	0.00	0.07	0.33	0.65	0.82	0.77	0.76	0.82	0.34	0.35	1.40	1.55	1.66	1.83	2.06	2.21	2.27	2.32	2.32
75	0.00	0.00	0.00	0.19	0.49	0.79	0.95	1.06	1.12	0.00	0.95	1.37	1.29	1.18	1.16	1.24	1.25	1.25	1.25
80	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
85	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
90	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
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Operators:DAMIN
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Humidity:65.0%
Test Distance:7.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LED Flood Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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Table--2

UNIT: ×10cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	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
-85	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
-80	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
-75	1.10	0.98	0.81	0.64	0.39	0.17	0.17	0.01	0.02	0.16	0.41	0.71	0.00	0.00	0.00	0.00	0.00	0.00
-70	12.4	6.85	2.24	2.42	2.07	1.64	1.18	0.76	0.49	0.39	0.50	0.12	0.00	0.00	0.00	0.00	0.00	0.00
-65	28.4	19.6	8.22	3.11	4.85	3.65	2.86	1.94	1.30	0.68	0.22	0.24	0.00	0.00	0.00	0.00	0.00	0.00
-60	35.0	18.8	5.30	6.29	5.73	4.54	3.46	2.27	1.30	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	213	187	152	117	87.9	58.7	34.1	9.94	3.31	1.63	0.59	0.15	0.00	0.00	0.00	0.00	0.00	0.00
-50	363	314	254	193	134	81.8	37.2	4.70	2.97	1.55	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	554	503	431	342	249	165	93.8	24.0	6.04	3.02	1.54	0.44	0.00	0.00	0.00	0.00	0.00	0.00
-40	863	790	682	544	397	266	153	68.9	31.3	3.59	1.71	0.58	0.17	0.00	0.00	0.00	0.00	0.00
-35	1228	1172	1071	918	719	518	346	197	99.9	32.8	4.19	1.89	0.82	0.05	0.00	0.00	0.00	0.00
-30	1537	1445	1289	1062	795	557	352	195	86.3	6.62	3.33	1.73	0.50	0.00	0.00	0.00	0.00	0.00
-25	1742	1681	1561	1374	1121	827	551	331	170	60.8	5.90	2.91	1.38	0.13	0.00	0.00	0.00	0.00
-20	1889	1790	1624	1398	1100	752	471	259	117	15.7	4.18	2.09	0.71	0.00	0.00	0.00	0.00	0.00
-15	2095	2033	1903	1710	1456	1093	710	426	218	86.9	6.67	3.49	1.68	0.23	0.00	0.00	0.00	0.00
-10	2107	2021	1862	1641	1340	941	589	334	158	40.4	5.51	2.69	1.11	0.07	0.00	0.00	0.00	0.00
-5	2165	2127	2031	1854	1610	1279	865	532	290	129	23.9	4.71	2.35	0.78	0.00	0.00	0.00	0.00
0	2190	2136	2005	1790	1514	1123	706	420	210	80.9	7.33	3.54	1.71	0.21	0.00	0.00	0.00	0.00
5	2118	2071	1969	1786	1524	1189	811	496	271	118	23.7	4.60	2.31	0.79	0.00	0.00	0.00	0.00
10	2001	1901	1735	1487	1148	805	505	285	133	32.5	5.14	2.61	1.08	0.07	0.00	0.00	0.00	0.00
15	1954	1864	1717	1508	1198	823	545	320	161	51.9	6.04	3.15	1.57	0.26	0.00	0.00	0.00	0.00
20	1602	1483	1314	1091	794	534	333	177	67.8	7.05	3.73	2.03	0.72	0.03	0.00	0.00	0.00	0.00
25	1342	1255	1124	960	761	537	354	208	97.2	22.3	4.65	2.75	1.37	0.24	0.00	0.00	0.00	0.00
30	992	881	743	601	454	309	190	98.8	15.0	4.63	3.08	1.79	0.62	0.09	0.00	0.00	0.00	0.00
35	760	695	602	496	386	269	175	103	44.8	5.94	3.23	1.94	0.88	0.15	0.00	0.00	0.00	0.00
40	460	405	335	262	177	109	67.4	35.9	7.26	3.09	1.79	0.77	0.21	0.03	0.00	0.00	0.00	0.00
45	208	184	153	116	73.0	19.9	7.65	5.61	4.10	2.95	1.78	0.72	0.11	0.00	0.00	0.00	0.00	0.00
50	131	112	88.8	62.4	26.9	6.64	4.97	3.70	2.77	1.92	1.03	0.35	0.09	0.00	0.00	0.00	0.00	0.00
55	72.2	64.1	53.6	41.2	26.6	8.68	4.38	3.46	2.58	1.83	1.30	0.66	0.51	0.00	0.00	0.00	0.00	0.00
60	4.29	3.96	3.65	3.45	3.19	2.93	2.55	2.05	1.51	1.12	0.79	0.55	0.26	0.00	0.00	0.00	0.00	0.00
65	3.34	3.20	2.94	2.85	2.77	2.69	2.46	2.15	1.24	1.32	1.20	0.57	0.47	0.00	0.00	0.00	0.00	0.00
70	2.26	2.13	2.06	2.14	2.26	2.28	2.16	0.79	1.13	1.46	0.93	0.18	0.09	0.00	0.00	0.00	0.00	0.00
75	1.28	1.20	1.21	1.35	1.57	1.90	1.92	1.68	0.06	1.43	1.47	0.46	0.00	0.00	0.00	0.00	0.00	0.00
80	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
85	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
90	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:2022-12-13

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.000m [K=1.0000]
Remarks: