

LED Downlight CATO Series C8R-30S-830



Light Output Ratio:	100.0%	
Luminaire Power:	33.87 W	
SHR Nominal:	1.00	Calculated using the TM5
SHR Maximum:	1.15	fine grid method.

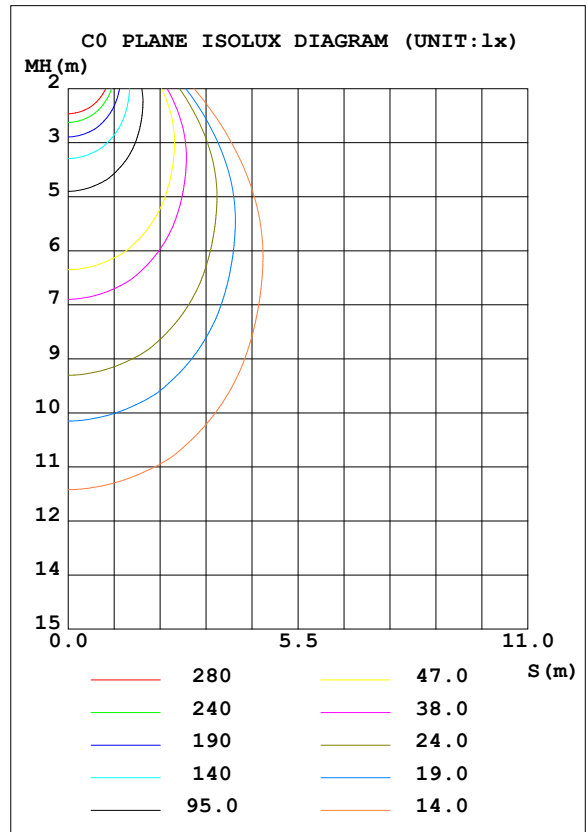
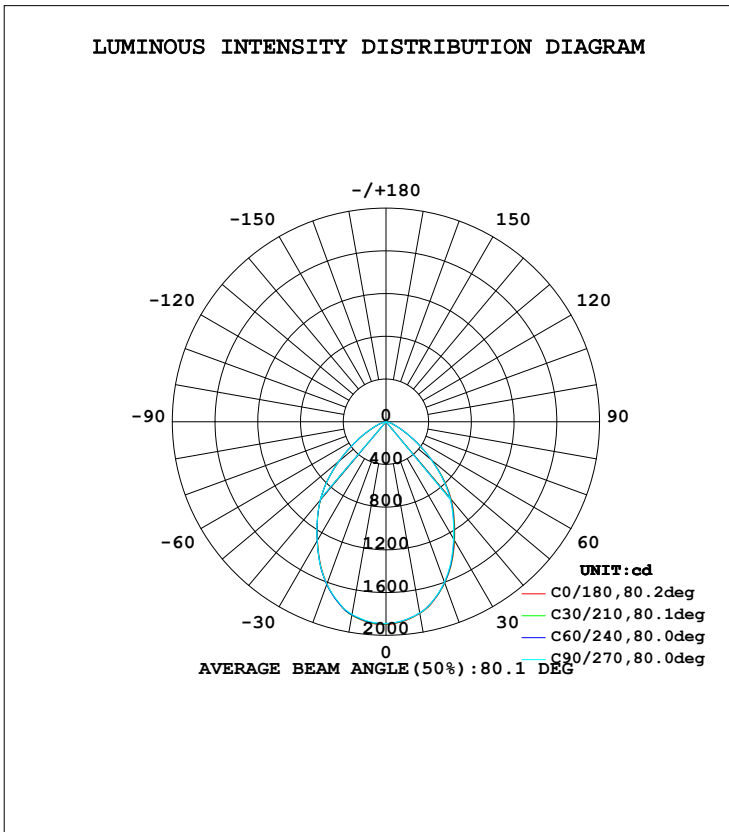
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2014-09-02

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 53.0%
 Test Distance: 5.780m [K=1.0000]
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.1555A P:33.87W PF:0.9891 Lamp Flux:3136.69x1 lm		
NAME: C8R-30S-830	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.61 lm/W			
MODEL	SAMSUNG-3000K	I _{max} (cd)	1900	S/MH (C0/180)	1.05
NOMINAL POWER (W)	35	LOR (%)	100.0	S/MH (C90/270)	1.06
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3136.7	η UP, DN (C0-180)	0.0, 49.7
NOMINAL FLUX (lm)	3136.69	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.15



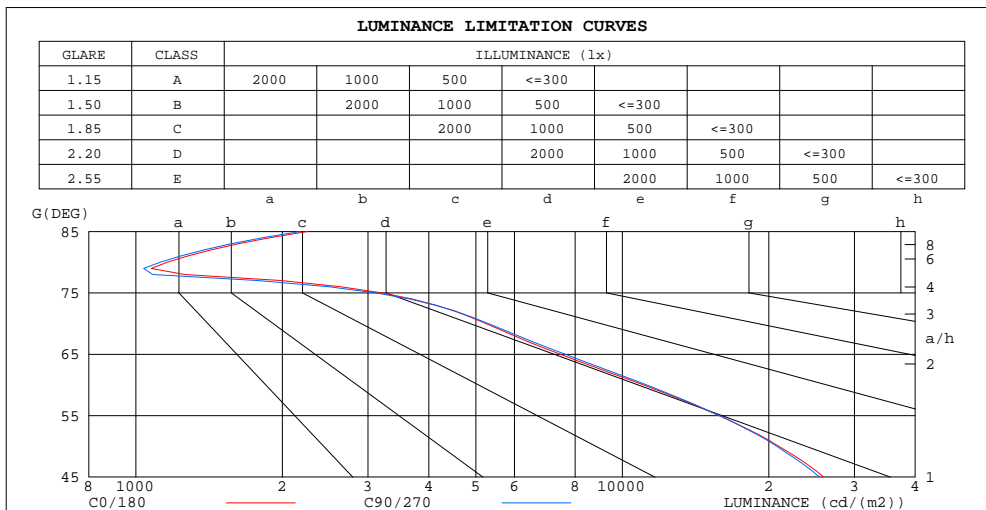
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 Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	λlum,lamp
10	1822	1821	1819	1819	1840	1837	1831	1816	0- 10	177.2	177.2	5.65,5.65
20	1607	1607	1599	1596	1616	1619	1618	1601	10- 20	486.4	663.7	21.2,21.2
30	1285	1281	1264	1266	1284	1282	1290	1279	20- 30	665.6	1329	42.4,42.4
40	950.1	947.3	932.3	939.3	955.8	949.0	958.0	951.3	30- 40	694.2	2023	64.5,64.5
50	560.3	562.7	554.8	560.0	573.4	567.3	576.5	565.0	40- 50	584.2	2608	83.1,83.1
60	229.6	234.5	233.0	230.7	234.4	236.7	244.0	234.0	50- 60	345.2	2953	94.1,94.1
70	74.54	76.70	75.36	74.11	73.03	73.73	76.60	74.54	60- 70	138.5	3091	98.6,98.6
80	8.370	8.222	8.095	8.081	8.344	8.887	8.885	8.484	70- 80	37.08	3128	99.7,99.7
90	0.4430	0.2433	0.2350	0.2288	0.1705	0.2059	0.6114	1.150	80- 90	8.210	3137	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



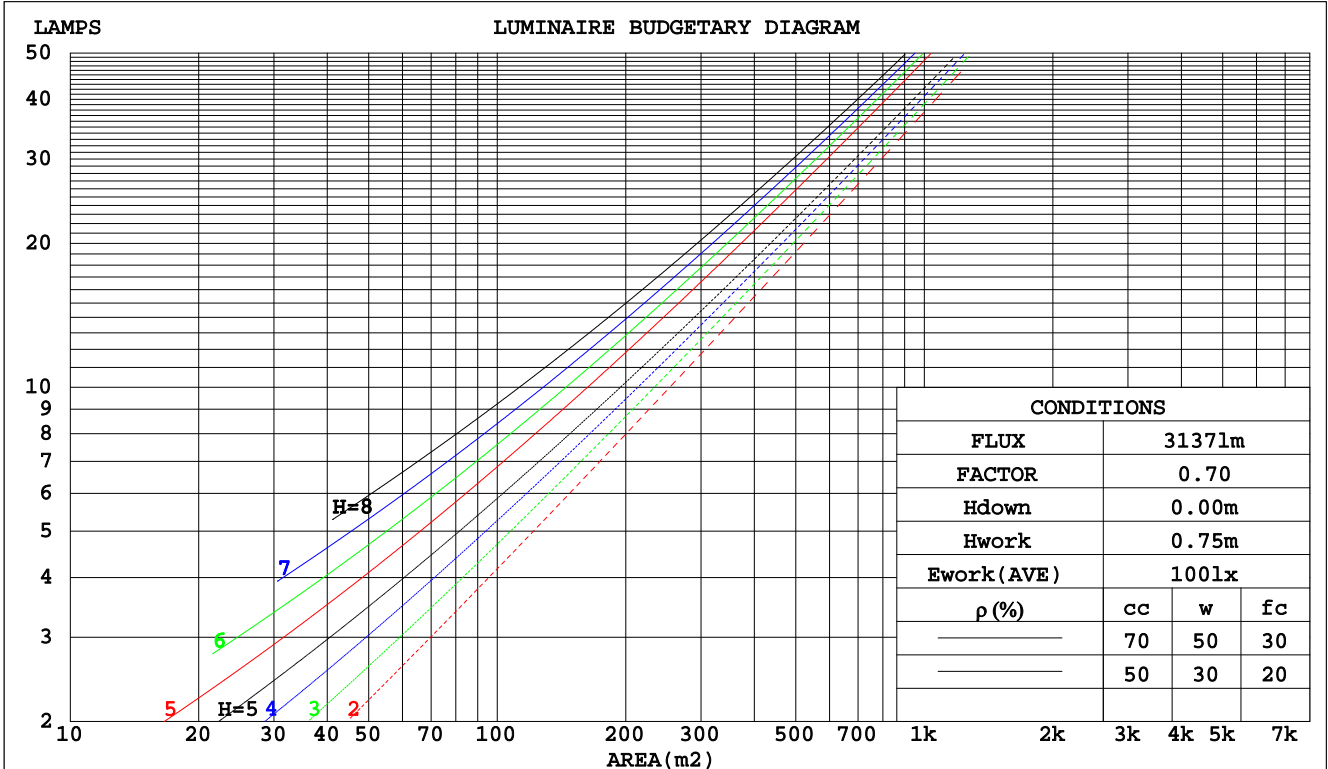
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: φ230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.90
2.0	.97	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.84	.81	.79
3.0	.88	.82	.76	.87	.81	.76	.84	.79	.74	.81	.77	.73	.79	.75	.72	.70
4.0	.80	.73	.67	.79	.72	.67	.76	.70	.66	.74	.69	.65	.72	.68	.64	.62
5.0	.73	.65	.60	.72	.65	.59	.70	.63	.59	.68	.62	.58	.66	.61	.58	.56
6.0	.67	.59	.53	.66	.58	.53	.64	.58	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.61	.54	.48	.60	.53	.48	.59	.52	.48	.58	.52	.47	.56	.51	.47	.45
8.0	.56	.49	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.39	.38
10.0	.49	.41	.37	.48	.41	.37	.47	.41	.37	.46	.41	.36	.45	.40	.36	.35



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.230	.131	.041	.223	.127	.040	.211	.121	.039	.199	.115	.037	.188	.109	.035	
2.0	.225	.123	.038	.219	.120	.037	.208	.115	.036	.197	.111	.035	.188	.106	.033	
3.0	.214	.114	.034	.209	.112	.034	.199	.108	.033	.190	.104	.032	.182	.101	.031	
4.0	.203	.105	.031	.198	.104	.031	.190	.101	.030	.182	.098	.029	.175	.095	.029	
5.0	.192	.098	.028	.188	.096	.028	.180	.094	.028	.173	.091	.027	.167	.089	.027	
6.0	.181	.091	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025	.159	.084	.025	
7.0	.171	.085	.024	.168	.084	.024	.162	.082	.024	.157	.080	.023	.151	.079	.023	
8.0	.162	.079	.022	.159	.078	.022	.154	.077	.022	.149	.075	.022	.144	.074	.022	
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.021	.142	.071	.020	.138	.070	.020	
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.135	.067	.019	.131	.066	.019	

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ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.141	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.090	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.145	.100	.065	.125	.086	.057	.086	.060	.040	.050	.035	.024	.016	.011	.008	
5.0	.138	.089	.053	.119	.077	.046	.082	.054	.032	.047	.032	.019	.015	.010	.006	
6.0	.131	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.073	.037	.108	.063	.032	.074	.045	.023	.043	.026	.014	.014	.009	.004	
8.0	.119	.067	.032	.103	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.040	.022	.010	.013	.007	.003	
10.0	.109	.058	.024	.094	.050	.021	.065	.036	.015	.038	.021	.009	.012	.007	.003	

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:53.0%
 Test Distance:5.780m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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SPEC.:3000K	DIM.: φ230mm*H76mm	
MFR.: E-LITE LIGHTING CO.,LTD.		

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	21.7	22.9	21.9	23.1	23.3	21.6	22.9	21.9	23.1	23.3
3H	21.8	22.9	22.1	23.2	23.4	21.8	22.9	22.1	23.2	23.4
4H	21.8	22.9	22.1	23.1	23.3	21.8	22.9	22.1	23.1	23.3
6H	21.7	22.7	22.0	23.0	23.2	21.7	22.7	22.0	22.9	23.2
8H	21.6	22.6	22.0	22.9	23.2	21.6	22.6	22.0	22.9	23.2
12H	21.6	22.5	21.9	22.8	23.1	21.6	22.5	21.9	22.8	23.1
4H 2H	21.7	22.8	22.0	23.0	23.3	21.7	22.8	22.0	23.0	23.3
3H	21.9	22.9	22.3	23.1	23.4	21.9	22.8	22.2	23.1	23.4
4H	21.9	22.8	22.3	23.1	23.4	21.9	22.8	22.3	23.1	23.4
6H	21.8	22.6	22.2	22.9	23.3	21.8	22.6	22.2	22.9	23.3
8H	21.8	22.5	22.2	22.9	23.2	21.8	22.5	22.2	22.8	23.2
12H	21.8	22.4	22.2	22.8	23.2	21.8	22.4	22.2	22.8	23.2
8H 4H	21.8	22.5	22.2	22.9	23.3	21.8	22.5	22.2	22.9	23.2
6H	21.8	22.3	22.2	22.7	23.2	21.8	22.3	22.2	22.7	23.1
8H	21.7	22.2	22.2	22.7	23.1	21.7	22.2	22.2	22.6	23.1
12H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.0
12H 4H	21.8	22.4	22.2	22.8	23.2	21.8	22.4	22.2	22.8	23.2
6H	21.7	22.2	22.2	22.6	23.1	21.7	22.2	22.2	22.6	23.1
8H	21.7	22.1	22.2	22.6	23.0	21.7	22.1	22.2	22.6	23.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.5					+ 1.1 / - 1.5				
1.5H	+ 0.6 / - 0.8					+ 0.6 / - 0.7				
2.0H	+ 2.4 / - 3.0					+ 2.3 / - 2.9				

CIE Pub.117 Corrected 3137 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.0)

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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.3V I:0.1555A P:33.87W PF:0.9891 Lamp Flux:3136.69x1 lm		
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SPEC.:3000K	DIM.: φ230mm*H76mm	
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REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	69	59	53	68	59	53	67	59	53	48
0.80	79	70	64	78	69	64	76	68	63	58
1.00	87	78	72	86	78	72	84	78	72	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	101	95	91	98	93	89	83
2.50	105	99	95	103	98	94	100	96	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	105	110	107	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

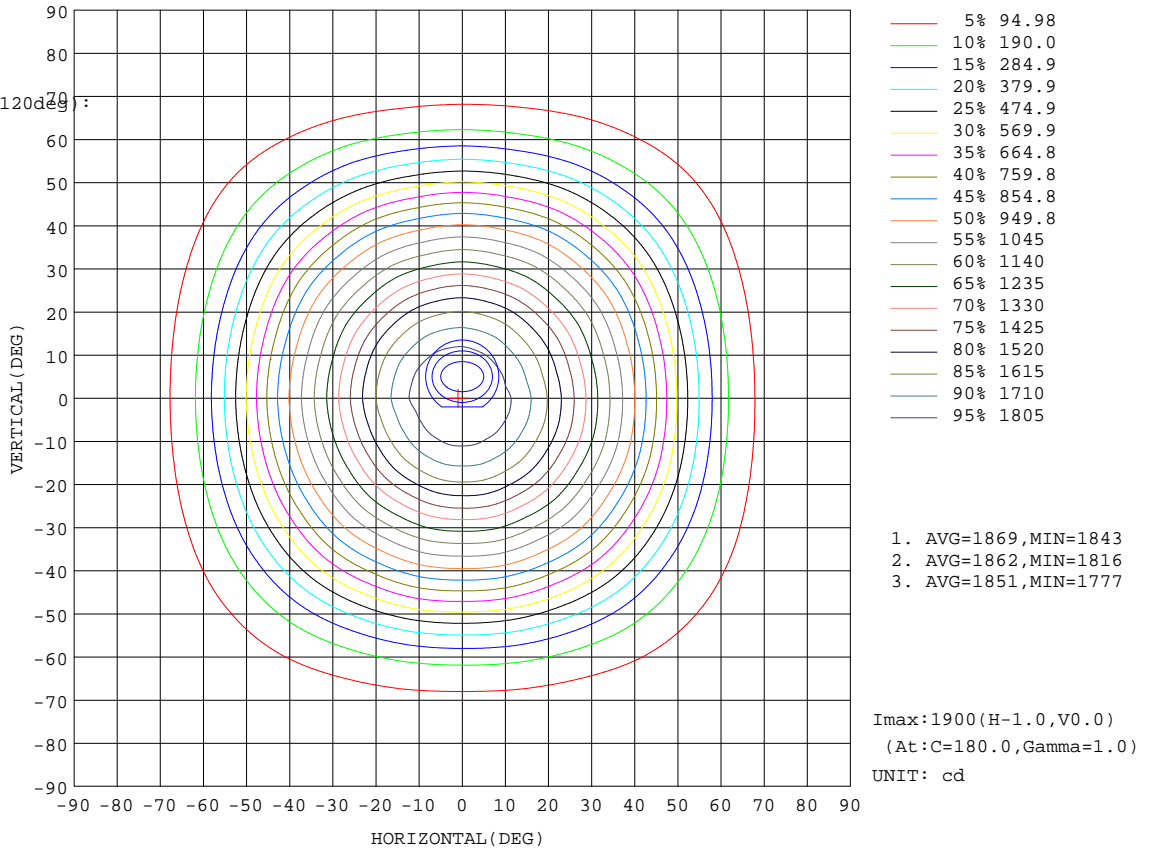
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Conical surface Flux(90deg):

2340.2 lm
%lum = 74.6%
%lamp = 74.6%

Conical surface Flux(120deg):

2952.9 lm
%lum = 94.1%
%lamp = 94.1%



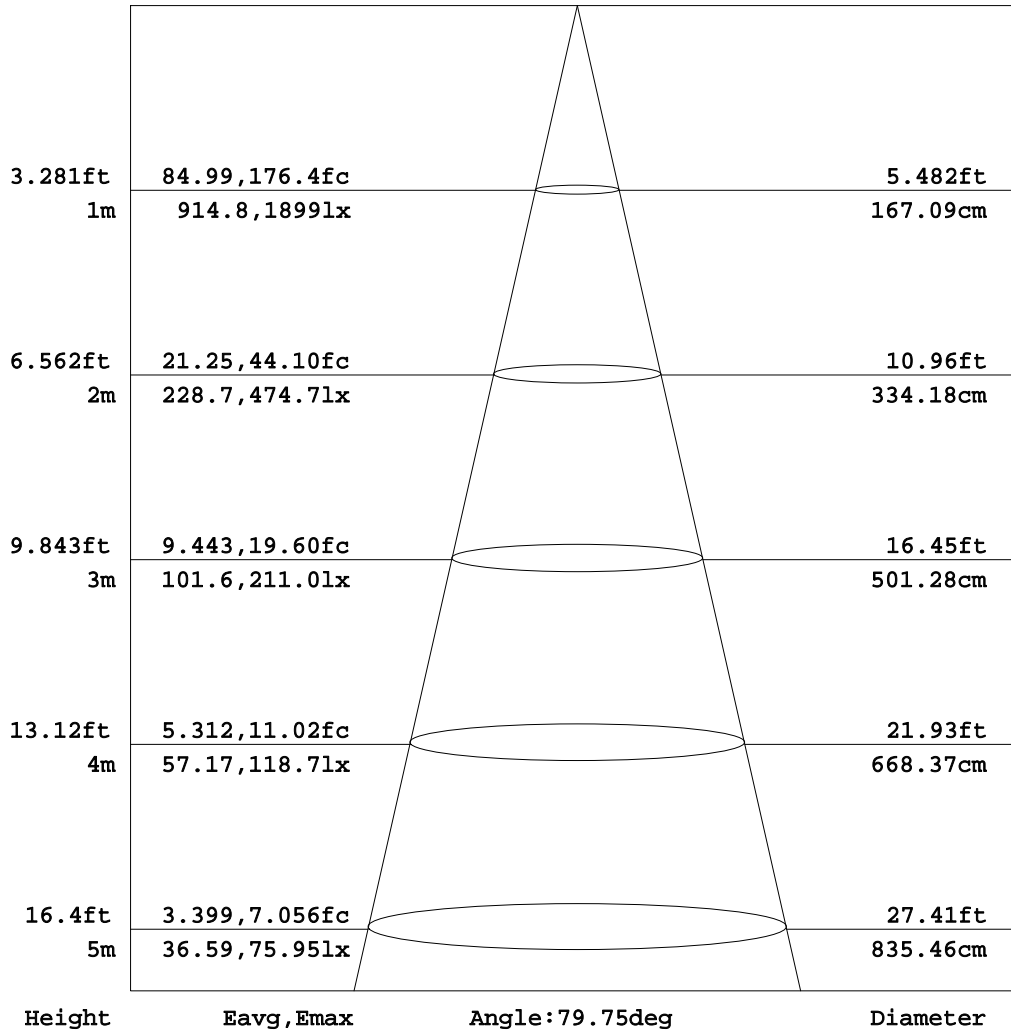
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AAI Figure

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Flux out:2023 lm



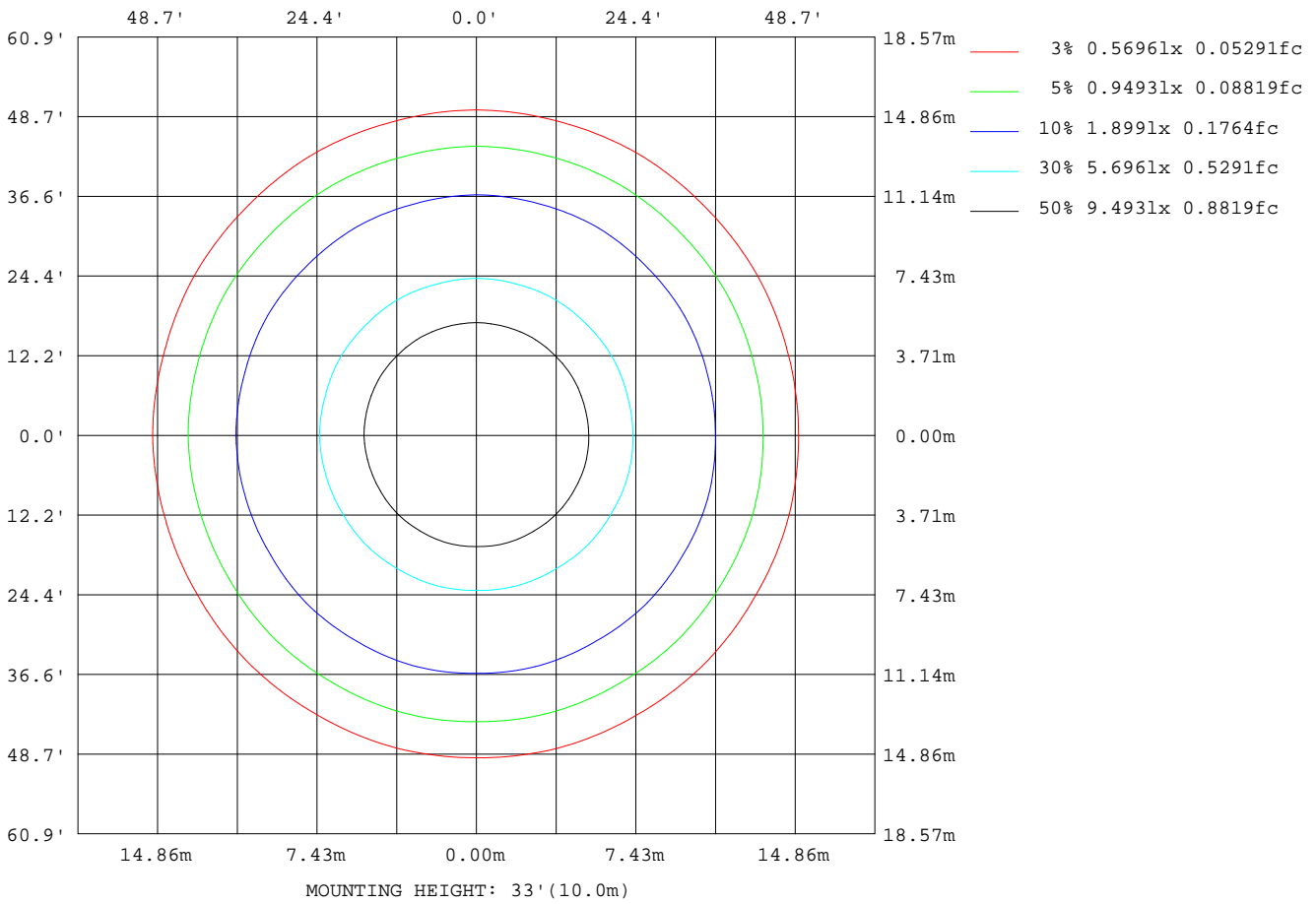
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

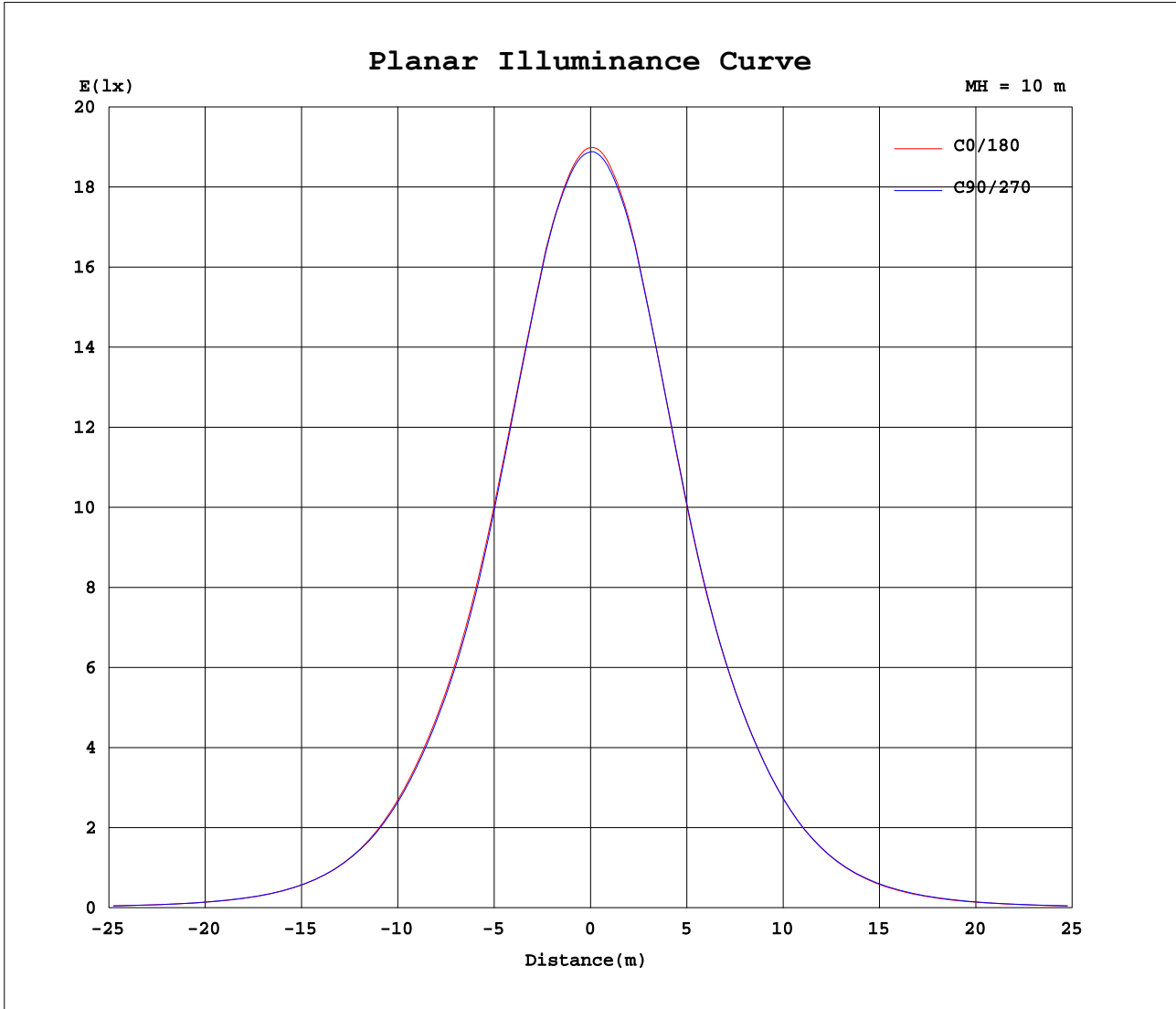
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Planar Illuminance Curve



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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	1899	1896	1894	1893	1891	1890	1888	1887	1886	1885
3.0	1889	1886	1884	1883	1881	1881	1881	1881	1882	1883
6.0	1867	1866	1863	1863	1861	1862	1861	1863	1862	1864
9.0	1835	1835	1832	1833	1831	1832	1831	1832	1831	1832
12.0	1795	1795	1792	1792	1789	1791	1790	1792	1791	1791
15.0	1732	1733	1728	1730	1727	1729	1726	1729	1727	1728
18.0	1659	1662	1658	1660	1655	1658	1653	1655	1650	1652
21.0	1578	1581	1577	1579	1573	1575	1569	1570	1564	1567
24.0	1488	1490	1486	1487	1481	1482	1475	1475	1469	1472
27.0	1389	1391	1383	1385	1377	1379	1371	1373	1366	1370
30.0	1285	1287	1278	1281	1271	1274	1264	1268	1261	1266
33.0	1182	1185	1174	1178	1167	1171	1162	1167	1159	1166
36.0	1083	1087	1076	1080	1069	1074	1065	1071	1063	1070
39.0	984.8	988.7	977.5	981.9	971.2	975.9	966.8	973.0	965.6	973.3
42.0	878.2	882.5	871.1	875.5	864.8	869.6	861.1	867.6	860.7	868.8
45.0	761.9	767.8	756.2	761.2	749.3	755.5	746.8	755.5	748.0	756.4
48.0	640.4	647.1	636.9	641.4	630.6	636.9	630.0	638.6	631.2	638.5
51.0	522.7	527.7	520.6	523.9	517.7	521.6	518.6	523.0	518.3	521.3
54.0	411.4	415.4	410.5	414.1	410.1	414.5	410.9	413.8	408.4	411.1
57.0	312.9	315.2	311.8	316.7	314.9	318.9	314.7	316.1	311.2	313.1
60.0	229.6	231.8	229.4	234.5	233.8	237.1	233.0	234.2	229.4	230.7
63.0	164.3	166.6	165.1	168.8	167.7	170.4	167.9	169.1	165.0	165.2
66.0	116.7	120.2	118.0	121.1	118.4	121.5	119.3	121.5	117.5	118.6
69.0	83.54	85.74	84.61	85.99	84.42	85.79	84.68	85.91	83.61	83.29
72.0	58.20	59.69	58.76	59.71	58.37	59.34	58.35	59.17	57.43	57.29
75.0	34.41	35.61	34.55	35.22	33.82	34.52	33.48	34.15	32.78	32.76
78.0	10.88	11.58	10.44	10.94	9.883	10.15	9.349	9.619	9.006	9.293
81.0	8.282	8.220	8.147	8.124	8.097	8.068	8.016	7.985	7.978	8.000
84.0	8.188	8.114	8.040	8.017	8.000	7.960	7.913	7.879	7.870	7.894
87.0	8.049	7.990	7.920	7.903	7.876	7.839	7.781	7.717	7.683	7.711
90.0	0.4430	0.3369	0.2807	0.2433	0.2392	0.2329	0.2350	0.2329	0.2329	0.2288
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1884	1883	1899	1896	1894	1893	1891	1890	1888	1887
3.0	1882	1881	1897	1894	1892	1890	1888	1886	1885	1883
6.0	1862	1863	1880	1876	1876	1873	1873	1870	1869	1865
9.0	1831	1833	1851	1849	1850	1847	1847	1843	1842	1837
12.0	1789	1792	1811	1809	1811	1809	1810	1805	1804	1798
15.0	1723	1727	1746	1743	1747	1744	1746	1741	1742	1735
18.0	1648	1652	1672	1670	1676	1673	1676	1670	1671	1664
21.0	1563	1568	1587	1585	1592	1590	1593	1588	1591	1582
24.0	1469	1474	1492	1490	1498	1496	1500	1495	1497	1490
27.0	1367	1372	1388	1385	1393	1390	1395	1391	1395	1388
30.0	1261	1269	1284	1279	1287	1282	1289	1284	1290	1283
33.0	1160	1168	1183	1177	1186	1179	1187	1180	1188	1181
36.0	1064	1073	1087	1079	1088	1081	1089	1082	1091	1084
39.0	967.6	976.7	989.6	982.0	989.7	983.2	991.2	984.5	992.4	986.1
42.0	863.0	872.3	885.8	877.7	885.6	878.3	886.5	878.3	887.0	880.2
45.0	749.1	759.3	772.7	765.3	773.7	764.7	772.7	763.8	772.8	766.1
48.0	630.4	639.9	653.1	647.8	655.6	646.4	653.2	645.1	654.5	648.2
51.0	516.5	521.6	533.9	530.6	537.3	530.2	535.0	529.7	537.8	532.8
54.0	406.7	411.6	421.2	418.4	424.2	420.4	425.1	421.7	428.0	423.3
57.0	309.4	313.3	320.0	316.9	322.4	321.5	328.6	325.3	329.2	324.4
60.0	227.0	229.8	234.4	231.0	236.2	236.7	244.5	241.4	244.0	239.6
63.0	161.1	162.5	166.2	164.6	168.5	168.7	173.4	172.3	174.6	171.5
66.0	113.0	113.7	116.1	115.7	119.7	118.0	121.7	119.8	123.6	120.9
69.0	80.17	80.45	82.18	81.55	83.85	83.02	84.62	83.75	86.23	85.58
72.0	55.06	55.36	56.53	56.02	57.57	57.01	58.18	57.65	59.54	59.25
75.0	31.01	31.51	32.33	31.84	33.09	32.73	33.77	33.36	35.03	34.91
78.0	8.793	9.150	9.630	9.306	9.882	9.688	10.30	10.14	10.85	10.56
81.0	8.072	8.185	8.262	8.446	8.665	8.777	8.839	8.822	8.771	8.664
84.0	7.965	8.073	8.139	8.333	8.538	8.641	8.692	8.676	8.622	8.527
87.0	7.773	7.890	7.979	8.167	8.375	8.471	8.532	8.513	8.476	8.381
90.0	0.2288	0.2288	0.1705	0.1747	0.1705	0.2059	0.2683	0.4450	0.6114	0.8464
G/C	300.0	315.0	330.0	345.0						
0.0	1886	1885	1884	1883						
3.0	1881	1878	1877	1875						
6.0	1864	1860	1858	1855						
9.0	1834	1829	1827	1822						
12.0	1795	1789	1787	1782						
15.0	1734	1725	1724	1719						
18.0	1662	1654	1652	1648						
21.0	1581	1573	1573	1568						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Cao Chengpei

Test Date: 2014-09-02

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 53.0%

Test Distance: 5.780m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	1490	1483	1484	1479
27.0	1390	1383	1386	1380
30.0	1287	1279	1285	1276
33.0	1188	1179	1184	1175
36.0	1091	1082	1088	1078
39.0	993.8	985.5	990.8	981.5
42.0	888.9	880.0	885.9	876.2
45.0	775.1	764.9	770.9	760.9
48.0	655.6	644.9	649.5	639.9
51.0	537.2	527.8	529.5	521.6
54.0	425.4	417.3	417.8	411.9
57.0	326.0	318.8	318.8	314.0
60.0	241.4	234.0	235.4	231.1
63.0	171.6	167.3	168.1	165.3
66.0	122.5	118.0	119.2	116.0
69.0	86.49	83.67	83.93	82.68
72.0	59.88	58.10	58.51	57.78
75.0	35.56	34.24	34.66	34.18
78.0	11.50	10.84	11.60	11.17
81.0	8.540	8.382	8.274	8.176
84.0	8.403	8.269	8.162	8.077
87.0	8.273	8.148	8.046	7.949
90.0	1.000	1.150	1.152	1.140

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Cao Chengpei
 Test Date: 2014-09-02

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 53.0%
 Test Distance: 5.780m [K=1.0000]
 Remarks: