



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SUNLD1835MCT-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Paul
 [TESTLAB] Bell-Southcn Testing Laboratory(Shenzhen)
 [TESTDATE] 2016-1-1
 [ISSUEDATE] 2016-1-1
 [MANUFAC] LAMAR LIGHTING CO.,INC.
 [LUMCAT] SUNLD1835MCT (3500K)
 [LUMINAIRE] LED Ceiling
 [LAMPCAT]
 [LAMP] LED

CHARACTERISTICS

Lumens Per Lamp	3364.197 (1 lamp)
Total Lamp Lumens	3364.197
Luminaire Lumens	3364
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	36.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.45 m
Luminous Width (90-270)	0.45 m
Luminous Height	0.12 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3445	3044	3289
55	3078	2620	2919
65	2695	2190	2523
75	2384	1815	2190
85	2267	1586	2054

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	969.697	969.697	969.697	969.697	969.697	969.697	969.697	969.697	969.697	969.697
5	964.383	963.460	963.460	963.306	964.998	957.925	959.309	961.769	963.614	965.613
10	949.468	947.162	944.855	944.855	945.778	938.551	941.165	945.624	949.468	952.389
15	924.713	921.176	915.948	914.411	917.332	909.029	914.718	920.254	925.020	928.710
20	890.270	883.813	877.970	876.740	880.276	870.589	877.508	886.119	893.346	897.651
25	847.525	840.606	833.379	831.995	832.764	825.230	835.224	845.834	854.291	858.750
30	800.321	789.865	782.792	777.257	781.562	775.258	786.944	795.862	805.549	813.698
35	743.430	733.128	722.826	720.519	723.441	716.829	730.206	743.583	754.039	759.421
40	685.616	672.085	662.859	658.247	663.321	658.093	672.546	687.153	696.533	703.760
45	625.034	610.273	600.587	593.667	596.743	597.204	610.273	623.651	635.644	641.487
50	558.149	542.927	532.625	527.858	532.932	530.472	545.694	561.378	572.141	580.444
55	493.877	478.501	468.353	463.433	468.353	467.123	480.192	498.029	508.946	517.710
60	429.452	414.383	400.699	396.393	400.699	404.850	417.151	430.528	441.752	450.978
65	362.720	348.113	339.195	335.351	339.502	340.117	351.495	368.255	379.634	389.013
70	302.600	290.145	280.766	279.074	278.921	283.903	294.020	306.013	316.899	327.355
75	249.399	238.789	229.102	226.181	229.102	233.992	243.018	253.258	262.622	270.910
80	200.811	191.739	184.820	183.743	185.896	188.602	196.167	207.499	215.771	220.815
85	162.063	154.375	148.686	147.610	146.841	151.961	158.327	165.938	175.240	179.515
90	129.158	120.702	116.243	115.474	116.704	118.841	126.191	132.849	138.569	142.028
95	100.713	96.408	93.640	93.332	93.794	95.885	99.775	105.233	110.461	112.522
100	82.569	79.648	79.648	79.801	79.648	80.632	83.215	86.013	89.719	90.857
105	72.175	70.945	71.483	72.898	73.205	73.374	74.112	75.189	76.373	76.065
110	67.977	67.685	68.623	70.145	70.514	70.791	71.206	71.498	71.606	70.238
115	64.964	64.564	65.486	66.962	67.593	67.824	68.193	68.531	68.777	67.685
120	61.489	60.889	61.796	63.472	64.149	64.333	64.687	65.240	65.732	64.994
125	57.629	57.229	58.075	59.751	60.597	61.073	61.335	61.827	62.350	61.689
130	53.309	53.016	53.893	55.538	56.384	56.907	57.306	57.875	58.798	58.490
135	48.496	48.035	48.788	50.433	51.602	51.863	52.432	53.339	54.416	54.646
140	42.930	42.561	43.237	44.652	46.020	45.990	46.682	48.065	49.249	49.741
145	36.979	36.395	36.641	38.086	39.070	39.547	40.377	41.469	43.007	44.114
150	30.045	29.460	29.583	30.491	31.951	32.197	33.228	34.811	36.595	37.425
155	23.464	22.756	22.434	23.095	24.632	25.232	26.278	27.800	29.722	30.629
160	16.914	16.375	16.375	16.391	17.237	18.513	19.789	21.065	22.234	23.694
165	12.224	11.655	11.901	11.717	12.501	13.439	14.407	15.115	15.868	16.591
170	9.641	9.456	9.994	10.087	10.440	10.825	11.209	11.455	11.901	12.285
175	8.457	7.519	7.688	8.718	9.302	9.410	9.456	9.887	10.071	10.225
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	969.697	969.697	969.697	969.697	969.697	969.697	969.697
5	967.765	969.457	970.841	968.534	967.150	965.459	964.383
10	955.465	957.310	958.079	958.694	955.926	952.543	949.468
15	933.631	934.861	936.245	937.475	935.015	930.248	924.713
20	901.034	903.494	904.878	908.414	903.801	897.036	890.270
25	862.286	863.670	865.054	870.897	865.515	857.366	847.525
30	817.081	818.311	818.618	823.692	817.696	811.699	800.321
35	762.957	764.341	768.185	773.720	767.262	758.498	743.430
40	707.604	708.987	709.449	716.675	711.755	700.377	685.616
45	647.330	650.712	651.481	655.940	649.021	638.719	625.034
50	584.288	585.979	590.746	592.745	587.056	576.754	558.149
55	520.170	524.014	524.322	529.703	524.168	509.099	493.877
60	454.822	461.588	461.895	462.049	455.898	444.520	429.452

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CANDELA TABULATION - (Cont.)

65	393.318	396.086	399.930	398.854	392.549	381.325	362.720
70	333.659	336.273	335.658	337.503	329.354	316.746	302.600
75	275.292	280.504	279.951	276.922	271.233	261.853	249.399
80	226.089	227.672	229.687	226.642	221.722	210.959	200.811
85	184.097	185.419	183.959	183.436	178.054	170.366	162.063
90	145.980	147.794	147.610	145.303	141.613	135.770	129.158
95	115.628	116.058	114.982	114.705	110.400	105.326	100.713
100	92.456	92.517	92.195	91.026	88.720	85.337	82.569
105	77.541	77.372	76.757	76.203	74.312	72.744	72.175
110	70.545	70.007	69.330	69.346	68.515	67.670	67.977
115	68.316	67.470	66.670	66.501	65.609	64.979	64.964
120	65.271	64.548	63.841	63.380	62.580	61.612	61.489
125	62.027	61.366	60.474	59.736	58.952	57.783	57.629
130	58.829	57.952	57.137	56.292	54.908	53.939	53.309
135	54.723	54.124	53.324	52.002	50.925	49.618	48.496
140	50.049	49.403	48.511	47.250	46.066	44.283	42.930
145	44.667	43.852	43.037	41.869	39.808	38.348	36.979
150	37.994	37.425	37.102	35.534	33.627	31.767	30.045
155	31.198	30.860	30.214	29.061	26.831	24.848	23.464
160	24.017	24.140	23.694	22.603	20.342	18.174	16.914
165	17.252	18.036	17.360	16.222	14.284	13.039	12.224
170	12.639	13.146	12.870	12.039	10.825	9.994	9.641
175	10.410	10.225	10.456	9.349	9.349	8.903	8.457
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	352.47	10.50	10.50
0-30	743.85	22.10	22.10
0-40	1211.11	36.00	36.00
0-60	2140.99	63.60	63.60
0-80	2779.36	82.60	82.60
0-90	2963.25	88.10	88.10
10-90	2871.63	85.40	85.40
20-40	858.64	25.50	25.50
20-50	1342.48	39.90	39.90
40-70	1296.95	38.60	38.60
60-80	638.37	19.00	19.00
70-80	271.30	8.10	8.10
80-90	183.89	5.50	5.50
90-110	197.44	5.90	5.90
90-120	263.76	7.80	7.80
90-130	317.67	9.40	9.40
90-150	383.16	11.40	11.40
90-180	400.95	11.90	11.90
110-180	203.51	6.00	6.00
0-180	3364.2	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.62
10-20	260.85
20-30	391.38
30-40	467.26
40-50	483.85
50-60	446.03
60-70	367.07
70-80	271.30
80-90	183.89
90-100	116.87
100-110	80.57
110-120	66.32
120-130	53.91
130-140	40.05
140-150	25.43
150-160	12.58
160-170	4.37
170-180	0.85

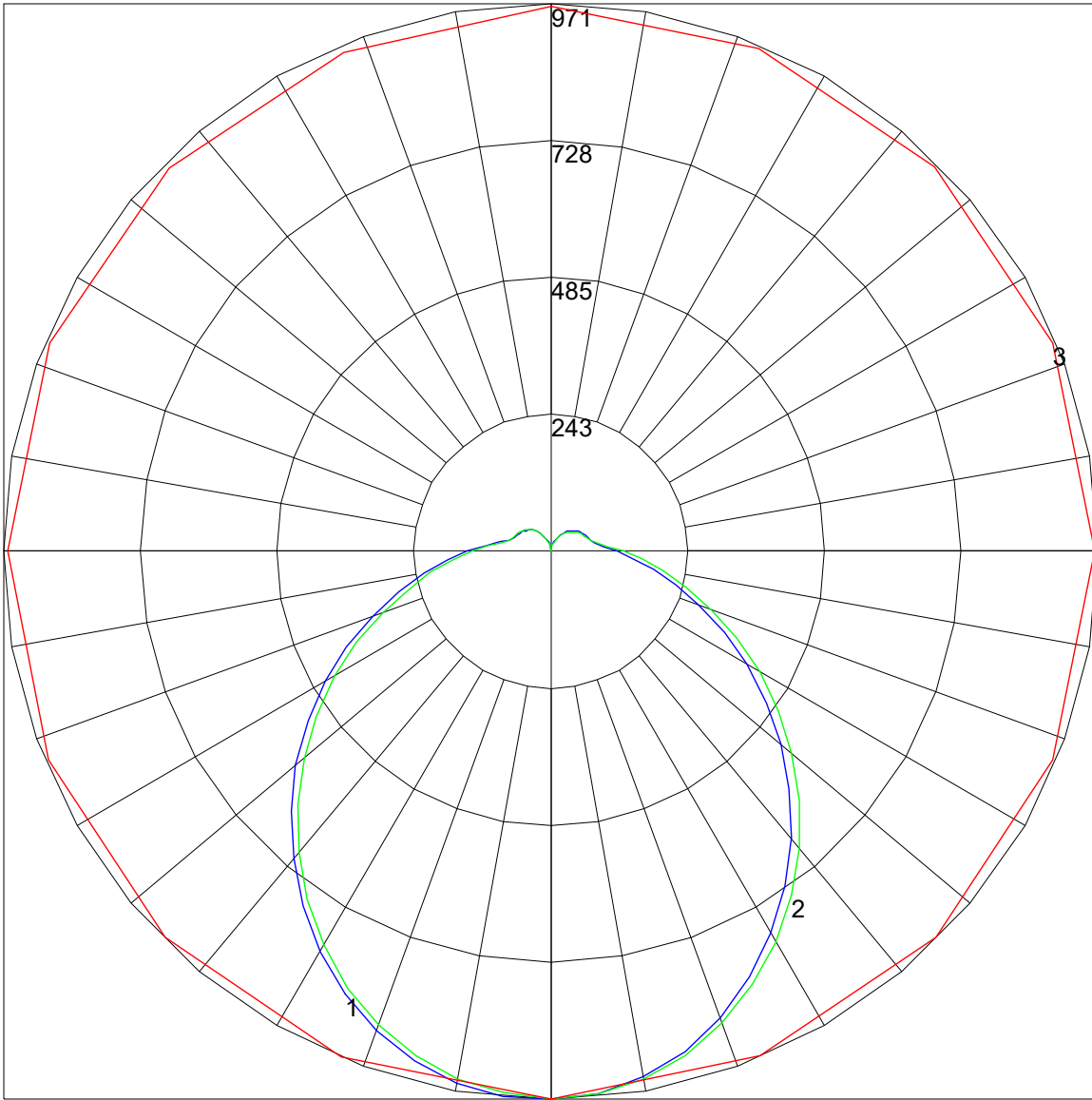
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	104	104	104	98	98	98	91	91	91	88
1	104	99	94	89	100	95	91	87	89	85	82	83	80	77	77	75	73	70
2	94	85	78	72	90	82	76	70	77	71	67	72	67	63	67	63	60	57
3	86	75	66	59	82	72	64	58	67	61	55	63	57	53	59	54	50	48
4	78	66	57	50	75	64	55	49	60	53	47	56	50	45	52	47	43	40
5	72	59	50	43	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	23	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	19

POLAR GRAPH



Maximum Candela = 970.841 Located At Horizontal Angle = 270, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)