



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SUNLD1628MCT-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] SUNLD1628MCT (3500K)

[LUMINAIRE] LED Ceiling

[LAMPCAT]

[LAMP] unidentified

CHARACTERISTICS

Lumens Per Lamp	32.4803 (80 lamps)
Total Lamp Lumens	2598.424
Luminaire Lumens	2598
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.40 m
Luminous Width (90-270)	0.40 m
Luminous Height	0.12 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3353	3023	3291
55	2979	2606	2903
65	2596	2191	2505
75	2280	1832	2219
85	2145	1600	2090

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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	744.727	744.727	744.727	744.727	744.727	744.727	744.727	744.727	744.727	744.727
5	741.277	741.123	741.585	741.738	742.815	736.818	738.048	738.817	740.354	740.969
10	730.668	730.360	729.591	730.360	731.436	723.902	725.747	727.285	728.822	730.514
15	713.446	712.370	711.755	712.216	712.216	704.682	706.527	709.295	711.601	713.600
20	690.229	688.384	687.461	686.077	687.615	677.620	680.849	685.616	688.384	690.382
25	659.015	656.863	655.325	655.325	655.786	646.407	649.175	653.941	657.324	660.553
30	624.727	622.113	620.114	619.499	619.192	610.120	613.349	618.884	622.728	624.881
35	585.518	582.597	580.290	576.292	577.369	567.221	570.911	578.445	583.827	586.133
40	542.619	536.469	534.009	532.163	531.241	523.245	527.397	533.855	538.314	540.774
45	493.416	490.033	487.265	483.729	484.190	476.810	480.961	486.189	492.493	495.107
50	444.366	441.137	436.525	432.834	431.451	425.454	429.605	436.063	442.675	446.980
55	390.704	387.168	384.246	380.556	380.710	375.943	379.634	384.708	391.165	393.933
60	339.656	336.273	331.968	330.277	330.123	324.895	329.815	334.582	339.195	343.654
65	288.608	287.070	283.072	278.613	278.459	275.753	278.475	282.934	290.437	294.312
70	241.403	238.636	235.407	234.330	234.177	230.686	234.161	237.744	243.248	245.416
75	200.196	198.504	196.044	195.275	194.814	191.923	195.091	197.981	201.257	204.716
80	164.831	162.524	159.757	159.295	158.527	156.605	159.065	161.694	165.338	167.814
85	132.541	131.619	130.542	130.081	129.158	127.944	129.727	131.972	134.356	136.231
90	106.709	105.018	105.018	104.557	102.097	102.604	103.511	105.879	107.878	108.785
95	83.184	82.723	81.185	80.878	80.416	79.740	81.062	82.246	83.722	84.999
100	65.040	64.425	64.579	64.441	63.288	63.195	63.857	65.256	66.301	66.547
105	53.278	52.909	53.370	53.370	52.094	52.017	52.371	53.339	54.185	53.816
110	46.205	46.113	46.866	47.435	46.866	46.559	46.512	46.928	47.112	46.405
115	43.883	44.068	44.821	45.805	45.913	45.513	45.082	45.159	45.498	45.067
120	42.115	42.176	43.099	44.037	43.898	43.453	43.268	43.391	43.499	43.222
125	39.762	39.578	40.562	41.408	41.730	40.992	40.839	40.746	40.823	40.639
130	36.718	36.641	37.502	38.578	39.117	38.455	38.271	37.979	38.240	38.086
135	33.243	33.151	33.904	35.057	35.611	35.380	34.950	35.226	35.042	35.134
140	29.368	29.076	29.783	30.814	31.782	31.644	31.183	31.013	31.152	31.290
145	24.740	24.817	25.048	26.216	27.400	27.415	26.954	26.785	26.739	27.062
150	20.266	20.173	20.542	21.419	22.480	22.557	22.234	22.403	22.311	22.756
155	15.945	15.914	15.760	16.391	17.575	17.606	17.636	17.467	17.452	17.836
160	12.347	12.332	12.209	12.578	13.177	13.531	13.639	13.423	13.439	13.731
165	9.748	9.718	9.641	9.795	10.025	10.671	10.486	10.517	10.502	10.333
170	8.318	8.349	8.042	8.149	8.365	8.734	8.549	8.595	8.549	8.795
175	6.612	6.888	7.227	7.350	7.534	7.719	7.550	7.503	7.457	7.319
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	744.727	744.727	744.727	744.727	744.727	744.727	744.727
5	742.661	743.583	743.891	742.046	741.892	741.738	741.277
10	732.513	733.435	733.896	733.589	733.128	732.051	730.668
15	714.830	715.753	716.829	717.444	716.214	715.292	713.446
20	692.074	692.843	692.228	694.380	693.765	691.766	690.229
25	663.167	663.167	663.474	665.781	664.858	662.859	659.015
30	626.726	627.802	627.956	629.955	628.571	627.648	624.727
35	587.978	587.517	587.825	591.207	590.131	587.517	585.518
40	545.387	545.079	543.849	548.154	545.848	544.618	542.619
45	496.799	496.337	498.182	499.259	498.490	495.569	493.416
50	448.825	447.903	446.673	450.363	448.210	446.827	444.366
55	394.394	398.085	396.701	399.930	397.470	396.240	390.704
60	344.269	344.422	346.114	345.345	343.039	341.809	339.656

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CANDELA TABULATION - (Cont.)

65	295.204	294.942	293.774	295.373	293.374	292.144	288.608
70	246.124	248.968	247.246	247.400	246.939	246.016	241.403
75	205.331	205.162	206.100	204.655	203.117	202.194	200.196
80	169.966	169.720	168.290	167.598	167.137	166.522	164.831
85	137.308	138.184	137.677	136.693	136.385	134.694	132.541
90	110.600	110.600	109.370	108.708	108.247	107.478	106.709
95	87.305	86.644	86.505	85.798	85.029	83.492	83.184
100	67.808	67.900	67.731	67.424	66.855	65.271	65.040
105	55.000	54.969	54.508	54.077	53.816	52.694	53.278
110	47.297	47.143	46.712	46.635	46.436	45.820	46.205
115	45.175	44.237	43.652	43.729	43.929	43.576	43.883
120	43.360	42.545	41.961	42.053	42.315	41.915	42.115
125	40.823	40.193	39.685	39.793	39.901	39.655	39.762
130	37.979	37.379	36.872	37.164	36.918	36.549	36.718
135	35.042	34.288	33.796	33.658	33.858	33.212	33.243
140	31.198	30.675	30.183	30.045	29.937	29.430	29.368
145	26.893	26.216	26.093	25.786	25.447	25.001	24.740
150	22.357	21.880	21.696	21.250	21.157	20.588	20.266
155	17.852	17.590	17.652	16.898	16.529	16.222	15.945
160	13.654	13.869	13.762	13.239	12.793	12.301	12.347
165	10.671	10.748	10.763	10.256	9.871	9.564	9.748
170	8.687	9.103	8.933	8.380	8.149	8.011	8.318
175	7.550	7.688	7.657	6.950	6.888	6.827	6.612
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	271.52	10.40	10.40
0-30	574.92	22.10	22.10
0-40	939.42	36.20	36.20
0-60	1666.99	64.20	64.20
0-80	2165.73	83.30	83.30
0-90	2312.31	89.00	89.00
10-90	2241.9	86.30	86.30
20-40	667.90	25.70	25.70
20-50	1046.78	40.30	40.30
40-70	1013.52	39.00	39.00
60-80	498.74	19.20	19.20
70-80	212.79	8.20	8.20
80-90	146.59	5.60	5.60
90-110	150.61	5.80	5.80
90-120	195.05	7.50	7.50
90-130	231.29	8.90	8.90
90-150	274.37	10.60	10.60
90-180	286.11	11.00	11.00
110-180	135.50	5.20	5.20
0-180	2598.42	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.41
10-20	201.11
20-30	303.40
30-40	364.50
40-50	378.88
50-60	348.69
60-70	285.95
70-80	212.79
80-90	146.59
90-100	92.56
100-110	58.06
110-120	44.43
120-130	36.24
130-140	26.59
140-150	16.50
150-160	8.05
160-170	3.03
170-180	0.65

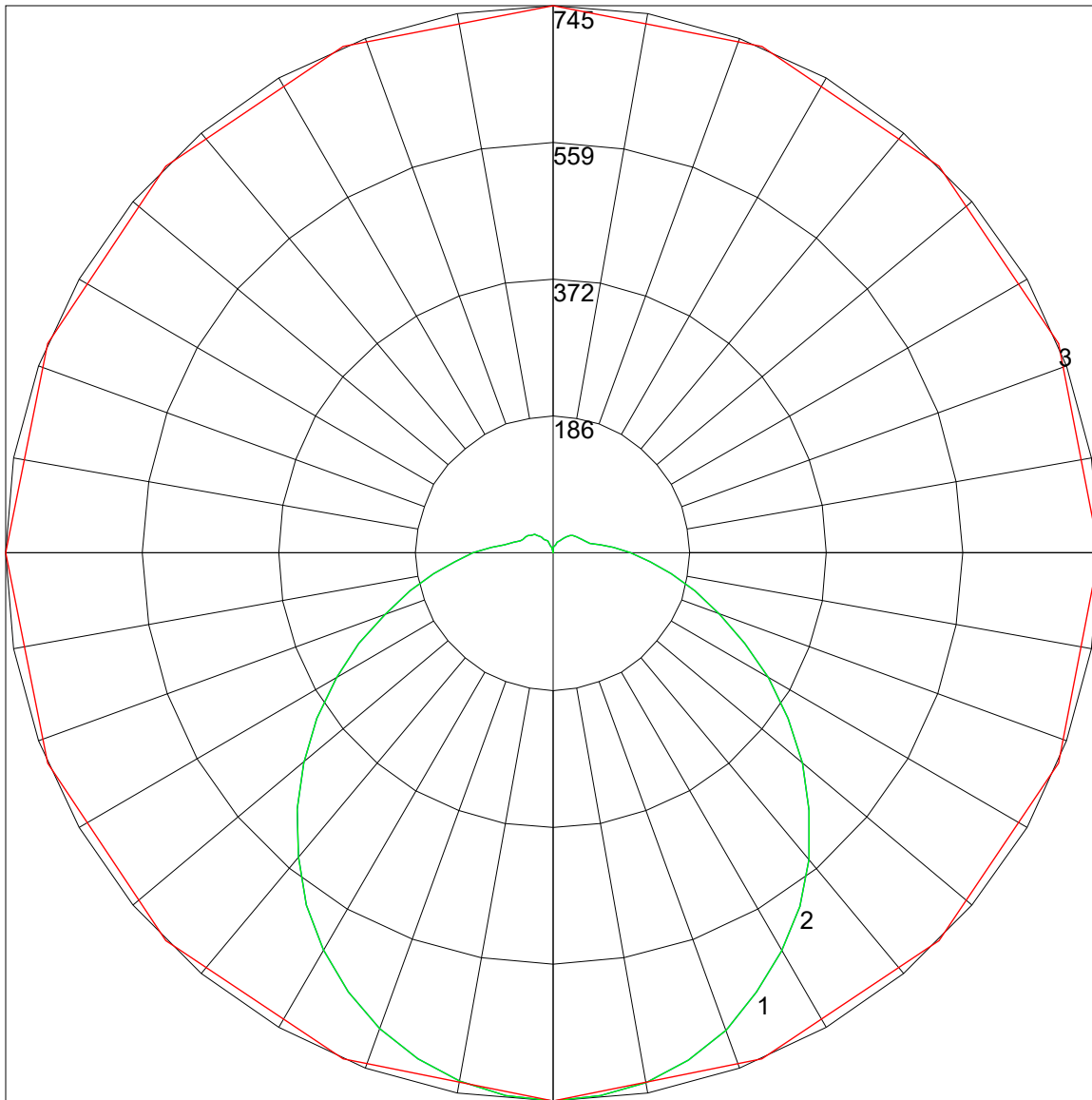
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	98	98	98	92	92	92	89
1	104	99	94	90	100	96	91	87	89	86	82	83	80	78	78	76	74	71
2	94	85	78	72	91	83	76	70	77	72	67	72	68	64	68	64	61	58
3	86	75	66	59	82	72	64	58	68	61	55	63	58	53	59	55	51	48
4	78	66	57	50	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	43	69	57	48	42	54	46	40	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	34	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	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

POLAR GRAPH



Maximum Candela = 744.727 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)