



IES INDOOR REPORT
PHOTOMETRIC FILENAME : DLLR48LRA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3,081P3
[TESTLAB] TUV SUD America
[ISSUEDATE] 5/28/2015 4:54:33 PM
[MANUFAC] LAMAR LIGHTING CO., INC.
[LUMCAT] DLLR48LRA40
[LUMINAIRE] 4' FIXTURE, WITH ROUND FROSTED LENS, 4000K
[MORE] LOW OUTPUT
[MORE] 1847-6
[_AMBIENT] 25.6 deg C
[_POWERFACTOR] 0.9972
[_ATHD] 5.21%
[_CURRENT] 0.19
[_VOLTAGE] 120.13
[_STABILIZATION] 40:40.0 Stable
[_POWER VARIATION] 0.13 %
[_LIGHT VARIATION] 0.48 %
[_Lumens] 2,716

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2716
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	22.94
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.42 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.33 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3059	2990	3786
55	2601	2447	2962
65	2228	2004	2170
75	1951	1679	1345
85	1666	1431	314

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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>
0.0	909.176	909.176	909.176	909.176	909.176	909.176	909.176	909.176	909.176	909.176
2.5	909.493	902.667	895.063	905.960	904.760	912.028	909.992	912.441	912.978	908.408
5.0	905.009	897.127	888.736	899.902	899.796	907.400	906.939	910.597	911.250	907.554
7.5	898.596	889.206	880.556	890.570	890.214	900.151	900.967	906.478	908.024	904.241
10.0	890.474	879.548	870.081	879.365	879.951	890.944	892.634	900.967	902.907	900.142
12.5	879.951	868.036	835.594	864.551	866.077	878.232	882.303	892.989	895.677	892.999
15.0	867.345	855.132	800.656	806.350	824.716	863.600	869.092	882.457	886.854	884.022
17.5	853.750	800.167	784.978	788.722	790.181	804.650	852.070	870.023	875.496	873.221
20.0	799.360	784.469	766.822	768.570	769.395	784.392	797.152	835.393	862.064	859.597
22.5	783.240	766.448	747.054	745.009	744.846	761.695	777.969	798.506	808.875	808.366
25.0	764.758	746.756	724.837	719.124	718.088	736.176	756.722	780.667	789.769	786.504
27.5	746.228	725.365	701.468	691.550	688.565	708.189	733.497	761.427	771.844	768.262
30.0	725.096	703.398	675.776	661.663	656.497	678.195	708.506	740.429	751.029	748.129
32.5	702.419	680.999	650.813	630.229	622.183	645.946	681.834	718.875	730.521	726.402
35.0	679.549	656.142	623.086	596.491	586.419	612.477	654.769	695.036	707.565	702.649
37.5	654.836	630.613	595.435	562.139	549.091	576.108	624.286	668.306	683.111	677.888
40.0	627.915	604.162	565.681	526.144	509.410	538.895	593.083	639.839	657.150	651.601
42.5	600.639	578.364	536.811	490.294	470.891	502.017	562.091	612.467	630.690	624.718
45.0	574.735	552.432	508.027	453.455	430.835	464.237	530.676	585.431	604.325	597.326
47.5	548.323	525.059	477.986	416.981	392.134	427.341	498.455	556.647	576.751	569.310
50.0	520.710	498.071	448.050	381.140	353.854	390.281	466.916	527.441	550.032	542.303
52.5	494.231	472.667	419.074	347.527	317.351	353.816	435.837	499.962	523.072	514.690
55.0	471.371	449.605	392.585	314.884	282.644	319.790	406.948	475.086	496.036	486.876
57.5	446.533	425.267	365.856	282.058	249.069	288.107	379.422	448.636	470.919	460.589
60.0	422.454	401.427	340.173	252.343	217.261	257.288	351.704	422.703	446.341	435.943
62.5	399.142	379.547	315.431	224.644	188.535	227.755	325.992	398.230	422.876	411.921
65.0	376.906	358.607	292.879	199.192	160.970	200.719	301.289	375.313	401.255	390.021
67.5	356.629	339.146	271.612	175.487	134.385	176.130	278.381	353.749	379.508	368.314
70.0	336.803	319.166	251.853	152.829	111.343	153.366	257.153	333.135	357.877	346.270
72.5	316.401	300.108	232.383	132.580	88.963	132.215	236.041	313.233	335.833	324.859
75.0	296.239	281.088	213.833	113.983	68.138	113.129	217.319	293.311	315.422	304.208
77.5	276.096	262.491	196.580	97.191	49.714	95.837	198.981	274.502	294.799	285.025
80.0	256.712	243.625	179.500	82.012	32.826	80.437	181.853	255.051	276.221	267.042
82.5	236.300	224.567	164.119	69.012	18.876	67.130	165.886	236.578	258.401	250.701
85.0	216.608	206.566	149.795	57.337	8.055	55.484	151.696	218.317	237.826	230.990
87.5	197.243	189.293	136.421	47.851	0.835	45.730	137.755	201.026	216.954	210.560
90.0	178.367	170.447	122.067	39.335	0.000	37.185	123.526	182.707	197.080	191.914
92.5	160.231	153.069	109.288	32.269	0.000	30.378	111.122	165.358	179.001	174.287
95.0	143.141	136.862	97.306	26.864	0.000	24.559	99.668	149.401	161.969	158.532
97.5	127.261	121.510	86.399	21.746	0.000	20.181	88.348	134.020	145.849	143.084
100.0	112.620	107.637	76.309	17.570	0.000	16.062	78.613	120.262	129.729	128.317
102.5	98.996	94.743	66.909	14.113	0.000	12.769	69.329	106.830	113.100	112.303
105.0	86.265	82.597	57.952	11.051	0.000	10.196	60.237	93.475	98.833	97.873
107.5	75.349	71.652	49.685	8.785	0.000	7.863	51.932	81.906	86.879	85.852
110.0	65.479	62.291	42.014	6.730	0.000	6.058	44.654	71.220	76.270	75.329
112.5	56.896	53.602	35.572	5.050	0.000	4.368	37.847	61.168	66.881	65.700
115.0	49.426	46.142	29.657	3.716	0.000	3.197	31.693	52.729	58.096	56.752
117.5	42.916	39.383	24.636	2.371	0.000	1.920	26.739	45.394	49.656	48.130
120.0	36.657	33.210	19.922	1.133	0.000	1.008	21.957	38.375	41.592	39.662
122.5	31.213	27.891	16.216	0.461	0.000	0.288	17.935	32.461	35.236	32.855
125.0	26.374	23.244	12.625	0.000	0.000	0.000	14.507	27.152	30.752	28.553
127.5	22.169	19.317	9.774	0.000	0.000	0.000	11.358	22.860	26.412	24.195
130.0	18.693	16.120	7.402	0.000	0.000	0.000	8.967	19.029	22.130	20.268
132.5	15.611	13.067	5.175	0.000	0.000	0.000	6.769	15.496	18.290	16.552

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135.0	12.808	10.648	3.610	0.000	0.000	0.000	4.877	12.990	14.814	12.856
137.5	10.071	8.286	2.199	0.029	0.029	0.000	3.264	10.542	12.001	10.043
140.0	7.959	6.097	1.162	0.154	0.010	0.058	1.843	7.633	9.524	7.681
142.5	5.876	4.100	0.451	0.144	0.096	0.221	0.883	5.703	7.786	6.250
145.0	4.388	2.957	0.528	0.490	0.163	0.173	0.221	4.042	5.741	4.176
147.5	2.900	1.747	0.605	0.547	0.576	0.384	0.240	2.458	3.879	2.717
150.0	1.440	0.989	0.701	0.586	0.826	0.346	0.720	1.373	2.074	1.047
152.5	0.730	0.874	0.682	0.749	0.518	0.586	0.509	0.566	0.979	0.643
155.0	0.874	0.912	0.691	0.758	0.566	0.653	0.566	0.787	0.672	0.566
157.5	0.739	0.854	0.874	0.634	0.787	0.826	0.701	0.835	0.432	0.624
160.0	0.999	1.143	0.970	1.210	0.902	0.893	1.047	0.874	0.787	0.624
162.5	1.162	1.018	1.191	0.950	0.970	1.248	0.893	1.104	0.739	0.864
165.0	1.162	1.315	1.133	0.845	1.018	0.922	1.287	0.749	1.104	0.845
167.5	1.095	1.277	1.143	1.229	1.200	0.758	1.143	0.999	1.008	1.085
170.0	1.075	1.239	1.239	1.123	1.171	1.258	1.162	1.219	1.229	0.960
172.5	1.575	1.287	1.335	1.296	1.315	1.248	1.027	1.315	1.181	1.181
175.0	1.085	1.287	1.018	1.354	1.152	1.421	1.200	1.171	1.354	1.191
177.5	1.315	1.546	1.392	1.315	1.392	1.267	1.162	1.603	1.267	1.171
180.0	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363	1.363

Vert. 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>
0.0	909.176	909.176	909.176	909.176	909.176	909.176	909.176
2.5	899.863	909.215	908.130	912.777	908.571	909.954	909.493
5.0	898.826	906.651	905.393	909.916	904.241	905.403	905.009
7.5	895.476	902.379	899.739	903.368	898.078	898.740	898.596
10.0	891.203	895.927	891.683	894.736	889.725	890.982	890.474
12.5	883.743	886.825	881.439	883.350	878.943	880.517	879.951
15.0	874.814	875.054	867.095	869.265	865.933	868.622	867.345
17.5	862.179	860.710	824.169	837.466	809.143	832.532	853.750
20.0	811.976	801.415	790.882	792.198	792.188	798.698	799.360
22.5	788.895	781.953	768.906	770.605	773.130	781.464	783.240
25.0	769.856	759.420	744.538	747.467	752.430	762.665	764.758
27.5	749.252	734.131	717.838	721.256	729.887	742.820	746.228
30.0	725.864	706.250	688.180	693.048	705.558	720.392	725.096
32.5	701.401	677.303	656.094	661.855	679.549	698.751	702.419
35.0	675.920	644.880	621.069	628.664	651.802	674.979	679.549
37.5	646.925	611.401	585.651	595.051	622.730	649.133	654.836
40.0	616.240	575.148	547.583	559.297	592.708	622.692	627.915
42.5	586.391	538.856	509.064	523.600	563.809	595.896	600.639
45.0	556.157	501.460	470.516	486.319	532.164	567.717	574.735
47.5	525.396	465.044	431.325	449.288	501.383	539.931	548.323
50.0	495.133	428.761	392.556	412.824	471.150	514.422	520.710
52.5	464.717	391.692	353.826	377.098	441.262	487.664	494.231
55.0	434.128	356.975	317.035	342.621	412.200	461.952	471.371
57.5	403.050	323.131	282.202	309.258	383.973	436.509	446.533
60.0	377.415	290.997	249.674	278.621	356.764	413.793	422.454
62.5	350.561	261.349	219.786	250.087	330.985	391.279	399.142
65.0	325.820	233.938	191.559	222.551	307.472	370.320	376.906
67.5	302.259	208.745	165.771	197.541	283.882	349.313	356.629
70.0	279.648	184.032	141.711	173.538	261.733	328.066	336.803
72.5	257.268	161.182	118.688	152.051	240.918	307.098	316.401
75.0	236.761	140.645	97.700	132.196	221.428	287.137	296.239
77.5	217.434	122.230	78.575	114.953	203.128	268.646	276.096
80.0	200.450	105.678	60.870	98.698	186.173	250.509	256.712

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CANDELA TABULATION - (Cont.)

82.5	184.272	91.056	45.230	84.220	170.005	231.384	236.300
85.0	168.661	77.432	31.405	71.499	153.798	211.683	216.608
87.5	152.521	65.076	19.788	59.392	138.638	192.241	197.243
90.0	137.554	54.150	12.193	49.637	124.333	174.335	178.367
92.5	124.064	45.394	9.630	41.592	111.880	157.380	160.231
95.0	112.447	37.674	8.305	34.276	99.927	141.960	143.141
97.5	101.118	31.578	6.961	27.536	88.876	126.119	127.261
100.0	90.384	25.788	5.847	22.034	78.335	111.736	112.620
102.5	78.824	20.825	4.320	16.898	67.793	97.469	98.996
105.0	68.695	16.447	2.813	13.096	58.576	84.345	86.265
107.5	59.440	12.923	1.767	9.956	50.588	74.062	75.349
110.0	51.692	9.735	0.826	7.268	42.859	64.644	65.479
112.5	44.424	7.431	0.144	5.021	36.484	55.523	56.896
115.0	37.598	5.818	0.000	3.629	30.195	47.631	49.426
117.5	31.299	4.234	0.000	2.122	24.415	40.113	42.916
120.0	24.972	2.803	0.000	0.720	19.634	33.296	36.657
122.5	19.980	1.479	0.000	0.038	15.909	28.390	31.213
125.0	16.744	0.595	0.000	0.000	12.808	24.348	26.374
127.5	13.643	0.000	0.000	0.000	9.812	20.431	22.169
130.0	10.792	0.000	0.000	0.000	7.191	16.523	18.693
132.5	8.190	0.000	0.000	0.000	4.407	13.086	15.611
135.0	5.780	0.000	0.000	0.000	2.861	10.004	12.808
137.5	3.850	0.000	0.000	0.000	1.613	8.026	10.071
140.0	2.477	0.000	0.000	0.000	0.672	6.125	7.959
142.5	1.200	0.077	0.000	0.250	0.211	4.464	5.876
145.0	0.720	0.106	0.010	0.163	0.442	2.755	4.388
147.5	0.346	0.374	0.326	0.086	0.346	0.970	2.900
150.0	0.173	0.394	0.278	0.451	0.307	0.586	1.440
152.5	0.384	0.528	0.470	0.470	0.509	0.461	0.730
155.0	0.547	0.566	0.470	0.672	0.394	0.662	0.874
157.5	0.624	0.739	0.682	0.787	0.691	0.701	0.739
160.0	0.797	0.864	0.672	0.845	1.075	1.027	0.999
162.5	1.047	0.768	0.893	0.845	1.018	0.874	1.162
165.0	0.960	1.018	0.874	1.018	0.941	0.787	1.162
167.5	1.075	0.902	1.085	0.999	1.123	1.210	1.095
170.0	1.210	1.392	1.162	1.219	1.095	1.248	1.075
172.5	1.008	1.114	1.171	1.287	1.325	1.248	1.575
175.0	1.229	1.229	1.392	1.402	1.383	1.315	1.085
177.5	1.507	1.277	1.373	1.267	1.200	1.527	1.315
180.0	1.363	1.363	1.363	1.363	1.363	1.363	1.363

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	326.64	N.A.	12.00
0-30	674.05	N.A.	24.80
0-40	1080.63	N.A.	39.80
0-60	1846.12	N.A.	68.00
0-80	2359.71	N.A.	86.90
0-90	2513.61	N.A.	92.50
10-90	2427.77	N.A.	89.40
20-40	753.99	N.A.	27.80
20-50	1159.88	N.A.	42.70
40-70	1058.01	N.A.	38.90
60-80	513.59	N.A.	18.90
70-80	221.06	N.A.	8.10
80-90	153.90	N.A.	5.70
90-110	155.02	N.A.	5.70
90-120	183.78	N.A.	6.80
90-130	196.33	N.A.	7.20
90-150	202.12	N.A.	7.40
90-180	202.85	N.A.	7.50
110-180	47.83	N.A.	1.80
0-180	2716.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.84
10-20	240.80
20-30	347.40
30-40	406.58
40-50	405.89
50-60	359.60
60-70	292.52
70-80	221.06
80-90	153.91
90-100	98.36
100-110	56.66
110-120	28.76
120-130	12.55
130-140	4.63
140-150	1.16
150-160	0.32
160-170	0.29
170-180	0.12

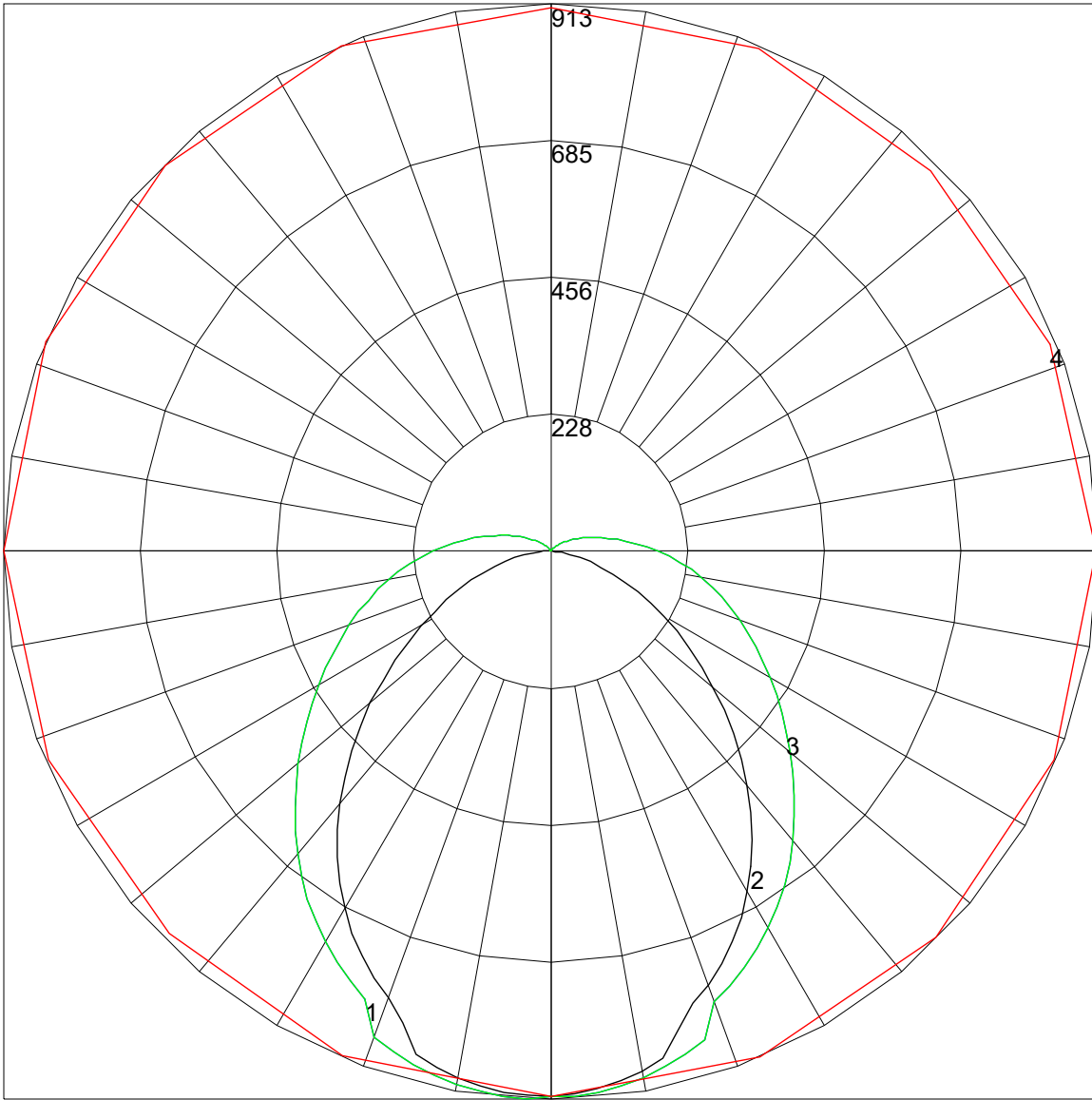
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	74
2	95	87	79	73	92	84	77	72	79	74	69	75	70	66	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	62	58	54	51
4	80	67	58	51	77	65	57	51	62	55	49	59	53	48	56	50	46	44
5	73	60	51	44	71	59	50	44	56	48	42	53	46	41	50	45	40	38
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	46	40	35	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	29
8	59	45	36	31	57	44	36	30	42	35	30	40	34	29	38	33	28	26
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	22

POLAR GRAPH



Maximum Candela = 912.978 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)