



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MCRL48M40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST] LTL03884P3  
 [DATE] 03/29/2021  
 [MANUFAC] LAMAR LED  
 [LUMCAT] MCRL48M40  
 [LUMINAIRE] CORNER SURFACE LED, WHITE  
 [MORE] FROSTED FLAT ACRYLIC LENS  
 [LAMP] LED (2) BOARDS - 1 ROW 4000K LUX 880MA

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	35.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.68
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.66
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.33 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9330	8202	3279
55	9363	7855	2597
65	9299	7036	2688
75	8702	5878	2924
85	7265	4488	2336

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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>
0.0	666.970	666.970	666.970	666.970	666.970	666.970	666.970	666.970	666.970
2.5	748.501	757.560	736.045	705.471	666.970	634.131	608.086	586.571	565.056
5.0	842.489	837.959	797.193	732.648	662.441	593.366	543.541	509.570	483.525
7.5	936.476	921.755	861.739	760.957	656.779	559.394	486.922	439.362	417.847
10.0	1027.066	1003.286	918.358	790.399	647.720	519.761	432.568	381.611	361.228
12.5	1104.068	1073.493	971.579	809.650	632.999	480.128	383.876	334.051	308.007
15.0	1182.202	1142.568	1021.404	827.768	618.278	443.892	340.845	289.889	268.373
17.5	1247.879	1205.982	1063.302	842.489	600.160	406.523	302.345	253.652	232.137
20.0	1311.293	1259.203	1099.538	852.680	580.909	372.552	268.373	221.946	206.093
22.5	1367.911	1311.293	1135.774	858.342	557.129	339.713	235.534	201.563	181.180
25.0	1414.339	1353.191	1165.216	860.607	535.614	305.742	207.225	176.651	163.062
27.5	1453.972	1388.294	1188.996	854.945	507.305	270.638	184.577	160.798	148.341
30.0	1483.414	1414.339	1205.982	850.415	481.260	237.799	163.062	140.415	130.223
32.5	1507.194	1439.251	1220.702	841.356	454.083	209.490	149.474	120.032	108.708
35.0	1525.312	1450.575	1227.497	820.973	420.112	186.842	133.620	98.517	79.266
37.5	1537.768	1461.899	1229.761	803.988	387.273	164.195	117.767	80.399	50.957
40.0	1545.695	1468.693	1228.629	784.737	356.699	148.341	108.708	55.486	24.912
42.5	1550.224	1467.561	1220.702	757.560	326.125	135.885	88.325	32.839	0.000
45.0	1554.754	1463.031	1208.246	731.516	296.683	127.959	72.472	6.794	0.000
47.5	1553.621	1458.502	1193.525	696.412	267.241	118.900	48.692	0.000	0.000
50.0	1546.827	1448.310	1174.275	661.308	240.064	116.635	28.309	0.000	0.000
52.5	1545.695	1435.854	1145.966	622.807	215.152	109.841	7.927	0.000	0.000
55.0	1536.636	1418.868	1113.127	580.909	197.034	99.649	1.132	0.000	0.000
57.5	1521.915	1397.353	1075.758	541.276	184.577	83.796	0.000	0.000	0.000
60.0	1507.194	1374.706	1032.728	502.775	176.651	69.075	0.000	0.000	0.000
62.5	1483.414	1344.132	982.903	466.539	169.857	49.825	0.000	0.000	0.000
65.0	1456.237	1306.763	927.417	424.641	158.533	26.045	0.000	0.000	0.000
67.5	1418.868	1262.600	869.666	387.273	152.871	7.927	0.000	0.000	0.000
70.0	1372.441	1208.246	809.650	351.037	138.150	2.265	0.000	0.000	0.000
72.5	1318.087	1143.701	750.766	314.801	130.223	1.132	0.000	0.000	0.000
75.0	1255.806	1067.832	693.015	280.830	117.767	0.000	0.000	0.000	0.000
77.5	1187.864	990.830	631.866	257.050	106.443	0.000	0.000	0.000	0.000
80.0	1106.332	909.299	571.850	235.534	87.193	0.000	0.000	0.000	0.000
82.5	1022.536	831.165	508.437	215.152	66.810	0.000	0.000	0.000	0.000
85.0	927.417	753.031	450.686	195.901	47.560	0.000	0.000	0.000	0.000
87.5	834.562	673.764	392.935	177.783	24.912	0.000	0.000	0.000	0.000
90.0	745.104	596.763	341.978	158.533	1.132	0.000	0.000	0.000	0.000
92.5	657.911	520.893	292.153	138.150	0.000	0.000	0.000	0.000	0.000
95.0	572.983	447.289	242.329	118.900	0.000	0.000	0.000	0.000	0.000
97.5	502.775	391.802	207.225	104.179	0.000	0.000	0.000	0.000	0.000
100.0	439.362	339.713	174.386	88.325	0.000	0.000	0.000	0.000	0.000
102.5	387.273	297.815	152.871	70.207	0.000	0.000	0.000	0.000	0.000
105.0	341.978	257.050	135.885	57.751	0.000	0.000	0.000	0.000	0.000
107.5	298.948	226.475	124.561	38.501	0.000	0.000	0.000	0.000	0.000
110.0	261.579	197.034	116.635	9.059	0.000	0.000	0.000	0.000	0.000
112.5	227.608	175.518	106.443	2.265	0.000	0.000	0.000	0.000	0.000
115.0	202.695	155.136	89.458	0.000	0.000	0.000	0.000	0.000	0.000
117.5	175.518	133.620	72.472	0.000	0.000	0.000	0.000	0.000	0.000
120.0	159.665	116.635	55.486	0.000	0.000	0.000	0.000	0.000	0.000
122.5	147.209	101.914	33.971	0.000	0.000	0.000	0.000	0.000	0.000
125.0	129.091	84.928	7.927	0.000	0.000	0.000	0.000	0.000	0.000
127.5	104.179	62.281	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	80.399	39.633	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	49.825	9.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	21.515	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	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	255.52	N.A.	7.80
0-30	566.61	N.A.	17.40
0-40	969.27	N.A.	29.70
0-60	1889.99	N.A.	58.00
0-80	2700.02	N.A.	82.80
0-90	2960.52	N.A.	90.80
10-90	2896.55	N.A.	88.80
20-40	713.75	N.A.	21.90
20-50	1166.58	N.A.	35.80
40-70	1362.76	N.A.	41.80
60-80	810.03	N.A.	24.80
70-80	367.99	N.A.	11.30
80-90	260.50	N.A.	8.00
90-110	235.98	N.A.	7.20
90-120	279.28	N.A.	8.60
90-130	297.61	N.A.	9.10
90-150	299.76	N.A.	9.20
90-180	299.76	N.A.	9.20
110-180	63.78	N.A.	2.00
0-180	3260.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.96
10-20	191.55
20-30	311.09
30-40	402.66
40-50	452.83
50-60	467.89
60-70	442.04
70-80	367.99
80-90	260.50
90-100	152.73
100-110	83.25
110-120	43.30
120-130	18.34
130-140	2.15
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

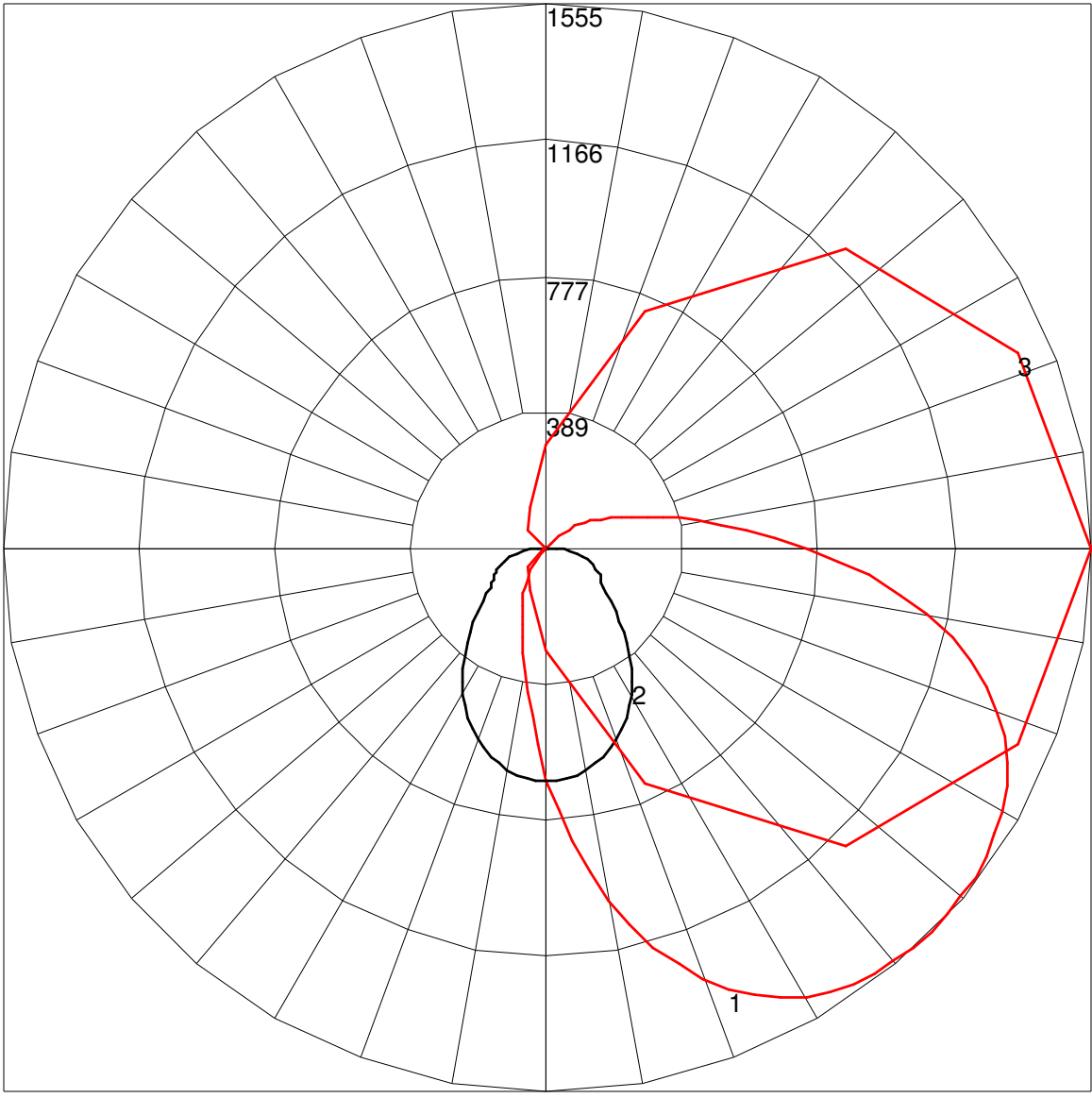
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	103	97	91	86	99	94	88	84	87	83	79	82	78	75	77	74	71	68
2	92	82	74	67	88	79	72	65	74	68	63	69	64	60	65	61	57	54
3	83	71	61	54	80	69	60	53	64	57	51	60	54	49	56	51	47	44
4	76	62	52	45	72	60	51	44	56	48	42	53	46	41	49	44	39	36
5	69	55	45	38	66	53	44	37	50	42	36	47	40	34	44	38	33	31
6	63	49	39	32	61	48	38	32	45	37	31	42	35	30	40	34	29	26
7	59	44	35	28	56	43	34	28	40	33	27	38	31	26	36	30	25	23
8	54	40	31	25	52	39	30	24	37	29	24	35	28	23	33	27	22	20
9	51	37	28	22	49	36	27	22	34	26	21	32	25	21	30	24	20	18
10	47	34	25	20	46	33	25	20	31	24	19	30	23	18	28	22	18	16

POLAR GRAPH



Maximum Candela = 1554.754 Located At Horizontal Angle = 0, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)