



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MCRL48L40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST] LTL03884P4  
 [DATE] 03/29/2021  
 [MANUFAC] LAMAR LED  
 [LUMCAT] MCRL48L40  
 [LUMINAIRE] CORNER SURFACE LED, WHITE  
 [MORE] FROSTED FLAT ACRYLIC LENS  
 [LAMP] LED (2) BOARDS - 1 ROW 4000K LUX 620MA

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	24
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	6768	5950	2379
55	6793	5699	1884
65	6746	5104	1950
75	6313	4264	2121
85	5270	3256	1695

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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>
<b>0.0</b>	483.860	483.860	483.860	483.860	483.860	483.860	483.860	483.860	483.860
<b>2.5</b>	543.008	549.580	533.971	511.791	483.860	460.037	441.142	425.534	409.926
<b>5.0</b>	611.192	607.906	578.332	531.507	480.574	430.463	394.317	369.672	350.778
<b>7.5</b>	679.376	668.696	625.157	552.044	476.467	405.818	353.243	318.740	303.131
<b>10.0</b>	745.095	727.844	666.232	573.403	469.895	377.066	313.811	276.844	262.057
<b>12.5</b>	800.957	778.777	704.842	587.368	459.215	348.314	278.487	242.341	223.446
<b>15.0</b>	857.640	828.888	740.988	600.512	448.536	322.026	247.270	210.303	194.694
<b>17.5</b>	905.287	874.891	771.383	611.192	435.392	294.916	219.339	184.015	168.406
<b>20.0</b>	951.290	913.502	797.671	618.585	421.427	270.272	194.694	161.013	149.512
<b>22.5</b>	992.365	951.290	823.959	622.693	404.175	246.448	170.871	146.226	131.439
<b>25.0</b>	1026.046	981.686	845.318	624.336	388.567	221.803	150.333	128.153	118.295
<b>27.5</b>	1054.799	1007.152	862.569	620.228	368.029	196.337	133.904	116.652	107.616
<b>30.0</b>	1076.158	1026.046	874.891	616.942	349.135	172.514	118.295	101.865	94.472
<b>32.5</b>	1093.409	1044.119	885.571	610.370	329.419	151.976	108.437	87.078	78.863
<b>35.0</b>	1106.553	1052.334	890.500	595.583	304.774	135.547	96.936	71.470	57.505
<b>37.5</b>	1115.589	1060.549	892.143	583.261	280.951	119.117	85.435	58.326	36.967
<b>40.0</b>	1121.340	1065.478	891.321	569.296	258.771	107.616	78.863	40.253	18.073
<b>42.5</b>	1124.626	1064.657	885.571	549.580	236.590	98.579	64.077	23.823	0.000
<b>45.0</b>	1127.912	1061.371	876.534	530.685	215.232	92.829	52.576	4.929	0.000
<b>47.5</b>	1127.090	1058.085	865.855	505.219	193.873	86.257	35.324	0.000	0.000
<b>50.0</b>	1122.161	1050.691	851.890	479.753	174.157	84.614	20.537	0.000	0.000
<b>52.5</b>	1121.340	1041.655	831.352	451.822	156.084	79.685	5.750	0.000	0.000
<b>55.0</b>	1114.768	1029.332	807.529	421.427	142.940	72.291	0.821	0.000	0.000
<b>57.5</b>	1104.088	1013.724	780.420	392.674	133.904	60.791	0.000	0.000	0.000
<b>60.0</b>	1093.409	997.294	749.203	364.743	128.153	50.111	0.000	0.000	0.000
<b>62.5</b>	1076.158	975.114	713.057	338.456	123.224	36.146	0.000	0.000	0.000
<b>65.0</b>	1056.442	948.004	672.804	308.060	115.009	18.894	0.000	0.000	0.000
<b>67.5</b>	1029.332	915.966	630.908	280.951	110.902	5.750	0.000	0.000	0.000
<b>70.0</b>	995.651	876.534	587.368	254.663	100.222	1.643	0.000	0.000	0.000
<b>72.5</b>	956.219	829.709	544.651	228.375	94.472	0.821	0.000	0.000	0.000
<b>75.0</b>	911.037	774.669	502.755	203.731	85.435	0.000	0.000	0.000	0.000
<b>77.5</b>	861.748	718.807	458.394	186.479	77.220	0.000	0.000	0.000	0.000
<b>80.0</b>	802.600	659.660	414.855	170.871	63.255	0.000	0.000	0.000	0.000
<b>82.5</b>	741.809	602.977	368.851	156.084	48.468	0.000	0.000	0.000	0.000
<b>85.0</b>	672.804	546.294	326.955	142.119	34.503	0.000	0.000	0.000	0.000
<b>87.5</b>	605.441	488.789	285.059	128.975	18.073	0.000	0.000	0.000	0.000
<b>90.0</b>	540.543	432.927	248.091	115.009	0.821	0.000	0.000	0.000	0.000
<b>92.5</b>	477.288	377.887	211.946	100.222	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	415.676	324.490	175.800	86.257	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	364.743	284.237	150.333	75.577	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	318.740	246.448	126.510	64.077	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	280.951	216.053	110.902	50.933	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	248.091	186.479	98.579	41.896	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	216.874	164.299	90.364	27.931	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	189.765	142.940	84.614	6.572	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	165.120	127.332	77.220	1.643	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	147.047	112.545	64.898	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	127.332	96.936	52.576	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	115.831	84.614	40.253	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	106.794	73.934	24.645	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	93.650	61.612	5.750	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	75.577	45.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	58.326	28.752	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	36.146	6.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	15.608	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	185.37	N.A.	7.80
0-30	411.05	N.A.	17.40
0-40	703.16	N.A.	29.70
0-60	1371.11	N.A.	58.00
0-80	1958.76	N.A.	82.80
0-90	2147.74	N.A.	90.80
10-90	2101.33	N.A.	88.80
20-40	517.80	N.A.	21.90
20-50	846.31	N.A.	35.80
40-70	988.63	N.A.	41.80
60-80	587.65	N.A.	24.80
70-80	266.97	N.A.	11.30
80-90	188.98	N.A.	8.00
90-110	171.19	N.A.	7.20
90-120	202.60	N.A.	8.60
90-130	215.91	N.A.	9.10
90-150	217.46	N.A.	9.20
90-180	217.46	N.A.	9.20
110-180	46.27	N.A.	2.00
0-180	2365.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.40
10-20	138.96
20-30	225.68
30-40	292.11
40-50	328.51
50-60	339.44
60-70	320.68
70-80	266.97
80-90	188.98
90-100	110.80
100-110	60.40
110-120	31.41
120-130	13.30
130-140	1.56
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

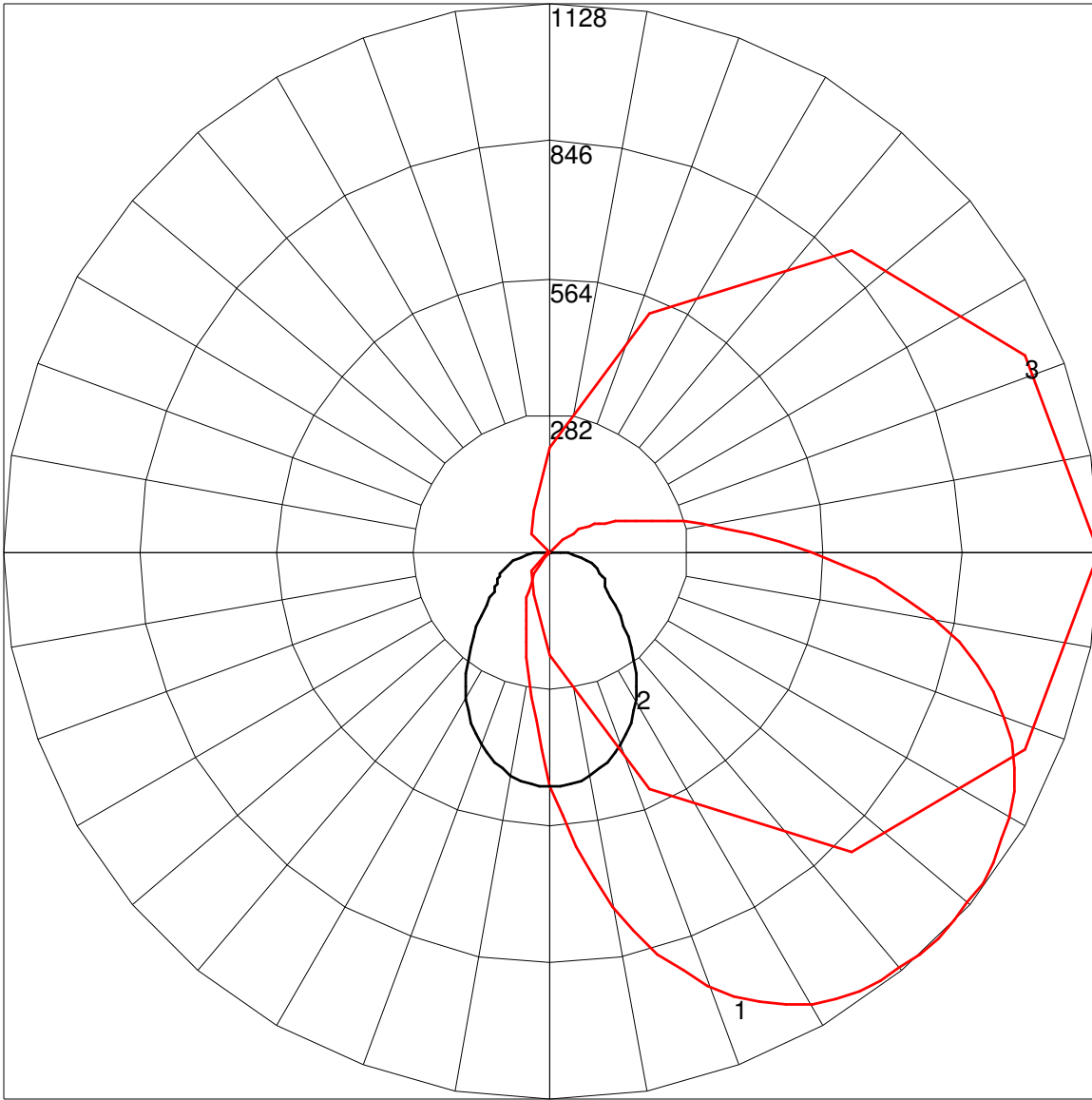
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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

POLAR GRAPH



Maximum Candela = 1127.912 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.)