



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCRL48H40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] LTL03884P2
 [DATE] 03/29/2021
 [MANUFAC] LAMAR LED
 [LUMCAT] MCRL48H40
 [LUMINAIRE] CORNER SURFACE LED, WHITE
 [MORE] FROSTED FLAT ACRYLIC LENS
 [LAMP] LED (2) BOARDS - 1 ROW 4000K LUX 1140MA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4095
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	47.3
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	11719	10303	4119
55	11761	9867	3261
65	11681	8838	3376
75	10930	7383	3672
85	9125	5638	2934

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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	837.775	837.775	837.775	837.775	837.775	837.775	837.775	837.775	837.775
2.5	940.186	951.565	924.540	886.136	837.775	796.527	763.812	736.787	709.762
5.0	1058.243	1052.553	1001.348	920.273	832.086	745.321	682.737	640.066	607.352
7.5	1176.299	1157.808	1082.423	955.832	824.974	702.650	611.619	551.879	524.854
10.0	1290.089	1260.219	1153.541	992.814	813.595	652.867	543.345	479.338	453.736
12.5	1386.810	1348.406	1220.393	1016.994	795.104	603.084	482.183	419.599	386.884
15.0	1484.953	1435.170	1282.977	1039.752	776.613	557.569	428.133	364.126	337.101
17.5	1567.451	1514.823	1335.604	1058.243	753.856	510.630	379.773	318.611	291.586
20.0	1647.103	1581.674	1381.120	1071.044	729.675	467.959	337.101	278.784	258.871
22.5	1718.222	1647.103	1426.636	1078.156	699.806	426.711	295.853	253.182	227.579
25.0	1776.539	1699.731	1463.618	1081.000	672.781	384.040	260.294	221.890	204.821
27.5	1826.322	1743.824	1493.487	1073.889	637.221	339.946	231.846	201.976	186.330
30.0	1863.303	1776.539	1514.823	1068.199	604.507	298.697	204.821	176.374	163.572
32.5	1893.173	1807.831	1533.314	1056.820	570.370	263.138	187.753	150.771	136.547
35.0	1915.931	1822.055	1541.848	1031.218	527.699	234.691	167.840	123.746	99.566
37.5	1931.577	1836.278	1544.693	1009.882	486.450	206.244	147.926	100.988	64.007
40.0	1941.534	1844.813	1543.270	985.702	448.046	186.330	136.547	69.696	31.292
42.5	1947.223	1843.390	1533.314	951.565	409.642	170.684	110.945	41.249	0.000
45.0	1952.913	1837.701	1517.668	918.850	372.661	160.728	91.032	8.534	0.000
47.5	1951.490	1832.011	1499.177	874.757	335.679	149.349	61.162	0.000	0.000
50.0	1942.956	1819.210	1474.997	830.663	301.542	146.504	35.559	0.000	0.000
52.5	1941.534	1803.564	1439.437	782.303	270.250	137.970	9.957	0.000	0.000
55.0	1930.155	1782.228	1398.189	729.675	247.492	125.168	1.422	0.000	0.000
57.5	1911.664	1755.203	1351.251	679.892	231.846	105.255	0.000	0.000	0.000
60.0	1893.173	1726.756	1297.201	631.532	221.890	86.765	0.000	0.000	0.000
62.5	1863.303	1688.352	1234.616	586.016	213.355	62.584	0.000	0.000	0.000
65.0	1829.167	1641.414	1164.920	533.388	199.132	32.714	0.000	0.000	0.000
67.5	1782.228	1585.941	1092.379	486.450	192.020	9.957	0.000	0.000	0.000
70.0	1723.911	1517.668	1016.994	440.934	173.529	2.845	0.000	0.000	0.000
72.5	1655.638	1436.593	943.031	395.419	163.572	1.422	0.000	0.000	0.000
75.0	1577.407	1341.294	870.490	352.748	147.926	0.000	0.000	0.000	0.000
77.5	1492.065	1244.573	793.682	322.878	133.703	0.000	0.000	0.000	0.000
80.0	1389.655	1142.162	718.296	295.853	109.522	0.000	0.000	0.000	0.000
82.5	1284.399	1044.019	638.644	270.250	83.920	0.000	0.000	0.000	0.000
85.0	1164.920	945.875	566.103	246.070	59.739	0.000	0.000	0.000	0.000
87.5	1048.286	846.310	493.562	223.312	31.292	0.000	0.000	0.000	0.000
90.0	935.919	749.588	429.555	199.132	1.422	0.000	0.000	0.000	0.000
92.5	826.396	654.290	366.971	173.529	0.000	0.000	0.000	0.000	0.000
95.0	719.719	561.836	304.387	149.349	0.000	0.000	0.000	0.000	0.000
97.5	631.532	492.140	260.294	130.858	0.000	0.000	0.000	0.000	0.000
100.0	551.879	426.711	219.045	110.945	0.000	0.000	0.000	0.000	0.000
102.5	486.450	374.083	192.020	88.187	0.000	0.000	0.000	0.000	0.000
105.0	429.555	322.878	170.684	72.541	0.000	0.000	0.000	0.000	0.000
107.5	375.505	284.474	156.461	48.361	0.000	0.000	0.000	0.000	0.000
110.0	328.567	247.492	146.504	11.379	0.000	0.000	0.000	0.000	0.000
112.5	285.896	220.467	133.703	2.845	0.000	0.000	0.000	0.000	0.000
115.0	254.604	194.865	112.367	0.000	0.000	0.000	0.000	0.000	0.000
117.5	220.467	167.840	91.032	0.000	0.000	0.000	0.000	0.000	0.000
120.0	200.554	146.504	69.696	0.000	0.000	0.000	0.000	0.000	0.000
122.5	184.908	128.013	42.671	0.000	0.000	0.000	0.000	0.000	0.000
125.0	162.150	106.678	9.957	0.000	0.000	0.000	0.000	0.000	0.000
127.5	130.858	78.230	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	100.988	49.783	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	62.584	11.379	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	27.025	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	320.95	N.A.	7.80
0-30	711.71	N.A.	17.40
0-40	1217.49	N.A.	29.70
0-60	2374.00	N.A.	58.00
0-80	3391.47	N.A.	82.80
0-90	3718.68	N.A.	90.80
10-90	3638.33	N.A.	88.80
20-40	896.54	N.A.	21.90
20-50	1465.33	N.A.	35.80
40-70	1711.75	N.A.	41.80
60-80	1017.48	N.A.	24.80
70-80	462.23	N.A.	11.30
80-90	327.21	N.A.	8.00
90-110	296.41	N.A.	7.20
90-120	350.80	N.A.	8.60
90-130	373.83	N.A.	9.10
90-150	376.52	N.A.	9.20
90-180	376.52	N.A.	9.20
110-180	80.11	N.A.	2.00
0-180	4095.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.34
10-20	240.61
20-30	390.76
30-40	505.78
40-50	568.80
50-60	587.71
60-70	555.24
70-80	462.23
80-90	327.21
90-100	191.84
100-110	104.58
110-120	54.38
120-130	23.03
130-140	2.70
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

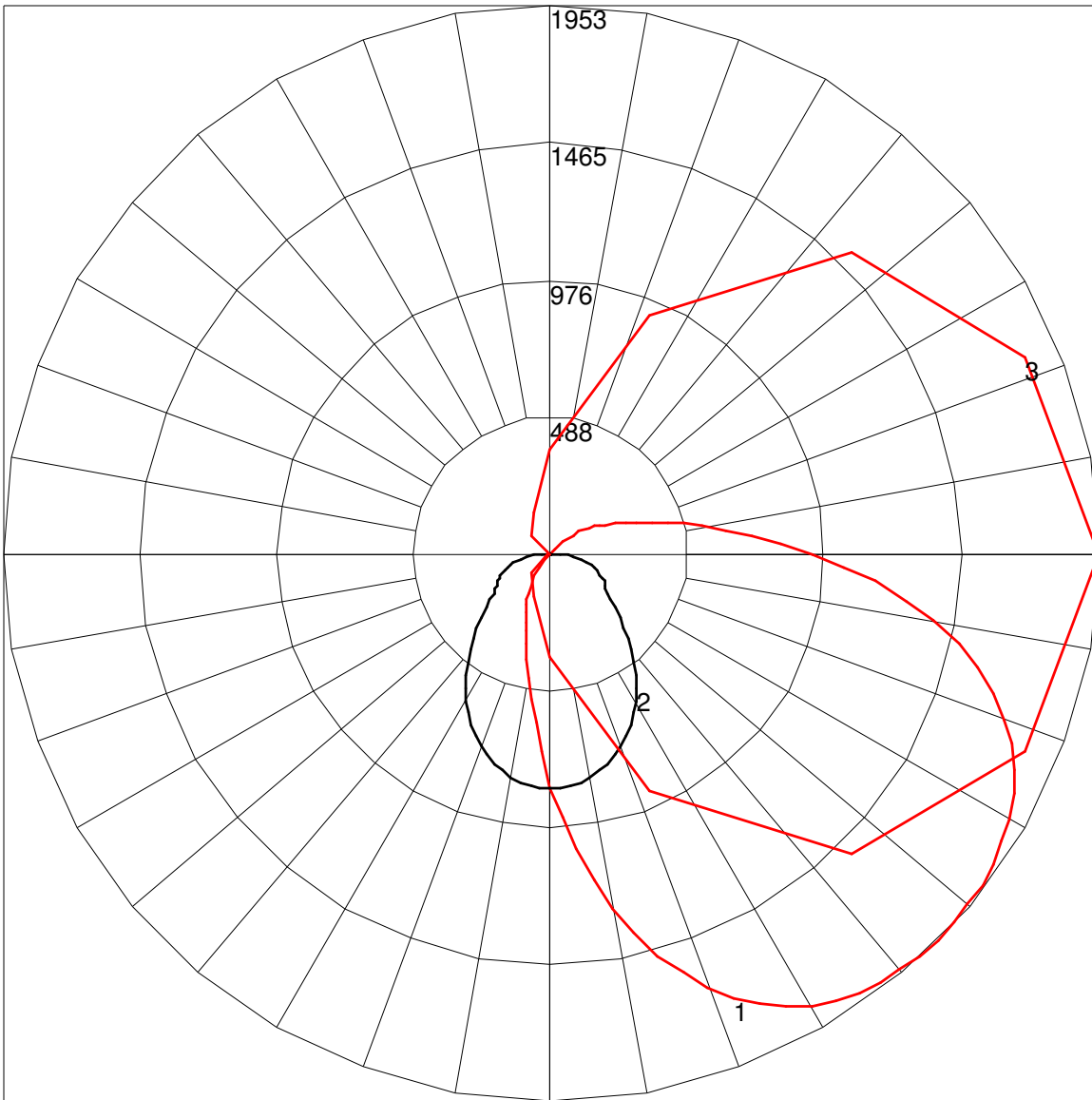
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1952.913 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.)