

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P147375

Luminaire Tested: **TLM-F06-LED-E1-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147375
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F06-LED-E1-5MQ
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

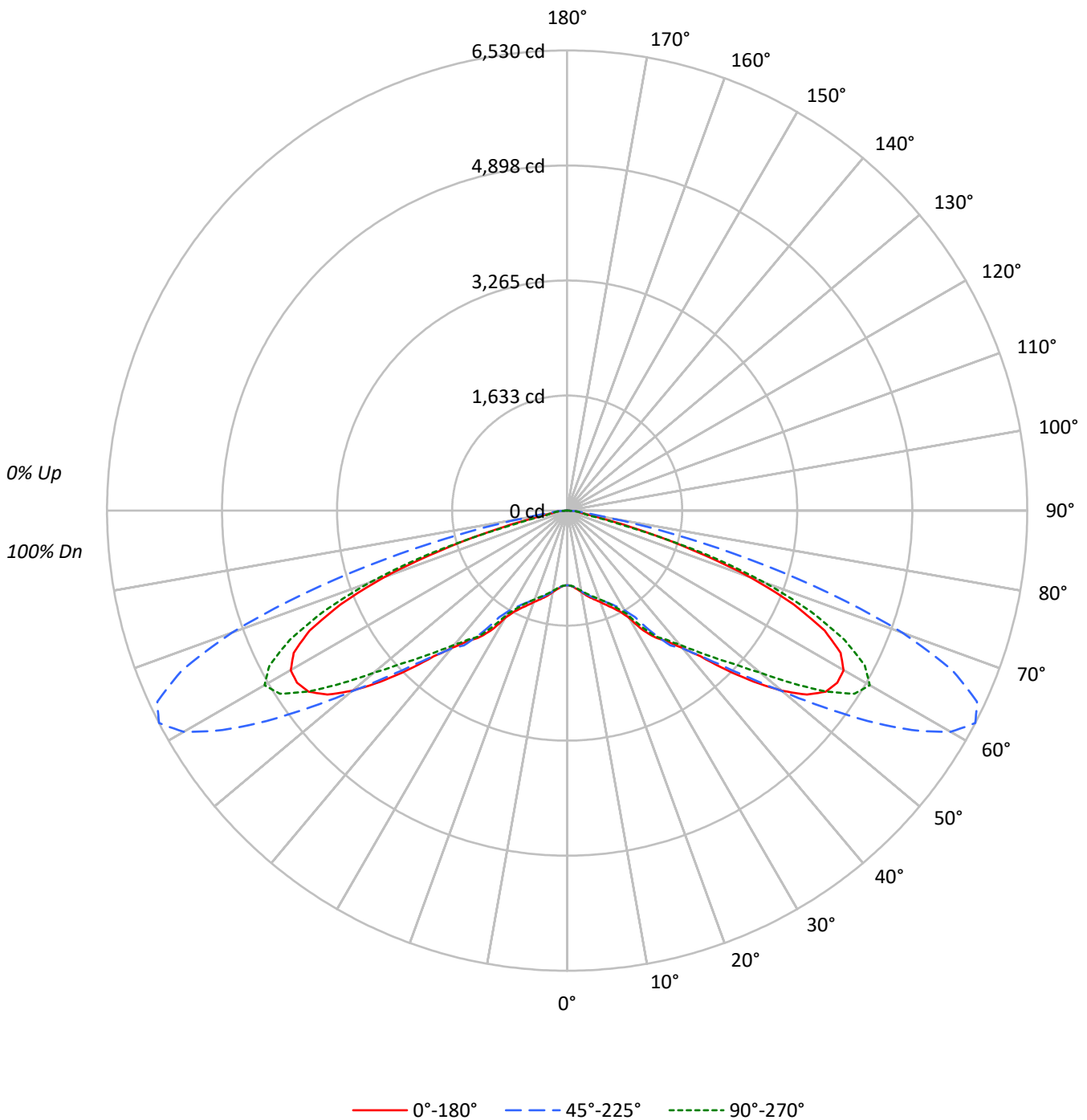
Lumens per Lamp: N/A
Luminaire Lumens: 15967.8 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P147375
CATALOG NUMBER: TLM-F06-LED-E1-5MQ

Luminous Intensity Polar Plot





TEST NUMBER: P147375

CATALOG NUMBER: TLM-F06-LED-E1-5MQ

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	90	103	97	93	88	93	89	85	89	86	83	85	83	80	78
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	68	58	50	79	67	57	49	63	55	48	60	53	47	57	51	46	44
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	37	30	46	36	29	43	35	29	41	34	28	26
6	59	43	32	24	57	42	31	24	40	30	23	38	29	23	36	29	23	20
7	54	37	27	20	52	37	27	19	35	26	19	33	25	19	32	24	19	16
8	49	33	23	16	47	33	23	16	31	22	16	30	22	16	28	21	16	13
9	46	30	20	14	44	29	20	14	28	20	14	27	19	14	26	19	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11410	11410	11410
5°	11793	11730	11703
10°	12831	12695	12632
15°	14240	13974	13836
20°	15830	15451	15320
25°	18069	17334	17472
30°	21823	20358	21055
35°	28974	27910	28616
40°	35727	35831	34915
45°	48669	47287	44912
50°	66562	66909	59968
55°	84075	97679	83966
60°	97512	135208	106737
65°	102688	163454	110597
70°	87113	159341	93634
75°	44184	111852	38382
80°	14021	38841	14121
85°	15191	20180	15500



TEST NUMBER: P147375

CATALOG NUMBER: TLM-F06-LED-E1-5MQ

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	0.7
10°-20°	359.1	2.2
20°-30°	694.3	4.3
30°-40°	1344.2	8.4
40°-50°	2427.1	15.2
50°-60°	4220.4	26.4
60°-70°	4791.3	30.0
70°-80°	1857.6	11.6
80°-90°	167.6	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1159.6	7.3
0°-40°	2503.8	15.7
0°-60°	9151.4	57.3
0°-90°	15967.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15967.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1091	1090	1086	1085	1083	107
15°	1278	1269	1254	1245	1242	365
25°	1521	1490	1460	1461	1471	717
35°	2205	2162	2124	2162	2178	1378
45°	3197	3124	3106	2985	2950	2504
55°	4480	4696	5205	4632	4474	3944
65°	4032	4629	6418	4982	4342	3844
75°	1062	1486	2690	1407	923	1287
85°	123	176	163	176	126	121
90°	0	0	0	0	0	



TEST NUMBER: P147375

CATALOG NUMBER: TLM-F06-LED-E1-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1066.6	1069.9	1069.1	1067.4	1067.4	1067.4	1066.6	1064.1	1063.2	1065.0	1066.6
5°	1091.4	1091.4	1091.4	1091.4	1089.7	1089.7	1088.1	1086.4	1087.2	1085.6	1084.8
7.5°	1129.3	1126.8	1126.8	1126.0	1126.0	1124.4	1121.9	1118.6	1119.4	1118.6	1117.8
10°	1173.9	1174.8	1172.2	1174.7	1170.6	1169.8	1166.4	1164.8	1164.0	1161.5	1161.5
12.5°	1227.6	1225.1	1225.1	1223.4	1221.8	1220.1	1215.2	1214.4	1211.1	1209.4	1207.0
15°	1277.9	1277.1	1273.8	1270.5	1269.6	1268.0	1262.2	1258.9	1258.1	1254.0	1250.7
17.5°	1328.2	1326.6	1322.5	1320.8	1317.5	1315.1	1310.1	1305.2	1302.6	1301.1	1296.9
20°	1382.0	1380.2	1376.2	1372.8	1368.7	1365.4	1358.0	1353.8	1351.4	1348.9	1345.6
22.5°	1448.8	1445.5	1438.9	1433.1	1424.0	1420.8	1410.8	1405.1	1400.9	1397.6	1395.9
25°	1521.4	1522.2	1513.2	1505.8	1495.0	1486.0	1473.6	1467.0	1462.8	1459.5	1458.7
27.5°	1612.2	1613.1	1604.8	1594.1	1577.6	1567.6	1551.2	1542.9	1540.4	1537.1	1536.3
30°	1755.8	1748.4	1734.4	1717.1	1702.2	1680.8	1656.8	1648.6	1640.3	1637.9	1637.8
32.5°	2020.0	2015.9	2004.4	1961.4	1941.6	1897.0	1855.0	1831.0	1803.8	1790.6	1782.3
35°	2205.0	2203.4	2194.2	2179.4	2167.0	2157.9	2133.2	2129.0	2124.0	2124.0	2130.6
37.5°	2341.2	2331.2	2329.6	2332.2	2328.8	2330.4	2350.2	2377.5	2400.6	2412.2	2410.6
40°	2542.6	2528.6	2536.8	2531.1	2523.6	2522.0	2528.6	2539.3	2550.0	2550.0	2547.6
42.5°	2806.0	2812.6	2815.9	2792.0	2776.2	2772.1	2787.8	2784.5	2795.2	2791.1	2780.4
45°	3197.2	3193.1	3187.4	3158.4	3133.7	3113.8	3118.0	3112.2	3113.0	3106.4	3098.2
47.5°	3591.8	3605.9	3582.0	3567.9	3539.8	3525.8	3537.4	3527.5	3546.4	3511.8	3495.3
50°	3974.9	3984.8	3976.6	3956.8	3956.7	3976.6	3990.6	4008.8	4035.2	3995.6	3936.1
52.5°	4288.6	4296.8	4309.2	4325.8	4366.2	4408.3	4467.8	4531.3	4581.6	4574.2	4506.6
55°	4480.1	4490.0	4510.6	4567.6	4640.3	4750.9	4885.5	5033.2	5148.8	5205.0	5155.4
57.5°	4544.5	4551.9	4608.0	4676.6	4789.7	4954.0	5179.4	5434.4	5656.5	5797.6	5775.4
60°	4529.6	4529.7	4586.6	4680.7	4839.2	5057.2	5375.8	5729.2	6069.2	6280.6	6249.2
62.5°	4373.6	4381.9	4463.6	4576.7	4768.2	5029.1	5408.8	5860.4	6267.4	6529.9	6504.3
65°	4031.8	4037.6	4126.0	4260.6	4474.4	4783.1	5198.3	5698.6	6165.0	6417.6	6369.8
67.5°	3479.6	3485.4	3557.2	3709.1	3935.3	4258.0	4706.3	5256.9	5713.4	5913.2	5769.6
70°	2768.0	2784.5	2830.8	2991.7	3163.4	3479.6	3892.4	4443.0	4873.9	5063.0	4904.4
72.5°	1886.3	1928.4	1984.5	2127.4	2291.6	2554.1	2882.8	3346.7	3692.6	3911.4	3770.2
75°	1062.4	1121.9	1139.2	1247.4	1382.8	1590.0	1830.2	2162.9	2512.0	2689.5	2519.5
77.5°	459.0	507.7	529.2	579.6	685.2	771.9	918.0	1142.6	1412.4	1537.2	1333.2
80°	226.2	237.8	246.8	262.6	292.2	320.3	389.6	487.9	598.5	626.6	498.6
82.5°	175.0	183.2	199.0	211.4	218.8	226.2	232.8	246.0	256.8	262.5	247.7
85°	123.0	133.8	151.1	165.1	173.4	179.2	184.9	189.0	179.1	163.4	171.7
87.5°	32.2	42.1	58.6	63.6	71.8	75.9	74.3	76.8	69.4	50.3	56.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P147375

CATALOG NUMBER: TLM-F06-LED-E1-5MQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1065.8	1064.9	1065.8	1065.8	1065.8	1064.9	1064.9	1064.9
5°	1084.8	1084.8	1085.6	1083.9	1083.9	1084.7	1083.9	1083.1
7.5°	1117.0	1116.1	1116.1	1115.3	1116.1	1115.3	1115.3	1114.5
10°	1159.8	1158.2	1159.0	1156.6	1156.6	1155.7	1155.7	1155.7
12.5°	1206.1	1203.6	1204.4	1201.9	1197.8	1198.7	1199.5	1198.7
15°	1250.6	1248.2	1245.8	1244.0	1241.6	1242.4	1242.4	1241.6
17.5°	1296.1	1291.1	1290.3	1287.8	1287.0	1287.0	1287.0	1287.8
20°	1343.2	1339.8	1339.0	1336.5	1335.7	1338.2	1339.0	1337.4
22.5°	1393.5	1391.8	1393.5	1391.8	1394.4	1396.0	1396.8	1395.1
25°	1457.1	1455.4	1457.9	1463.6	1467.0	1468.6	1472.7	1471.1
27.5°	1538.8	1537.1	1542.9	1551.2	1556.1	1564.4	1568.5	1570.1
30°	1644.4	1651.9	1655.2	1671.6	1675.0	1688.2	1688.2	1694.0
32.5°	1798.0	1812.0	1836.8	1862.4	1897.8	1923.4	1923.4	1936.7
35°	2134.8	2140.6	2159.6	2163.7	2171.1	2179.4	2171.1	2177.7
37.5°	2393.2	2367.6	2349.4	2323.9	2308.2	2308.2	2309.9	2308.2
40°	2525.2	2515.4	2507.1	2485.6	2482.4	2481.6	2481.5	2484.8
42.5°	2761.4	2737.4	2724.2	2706.0	2700.2	2698.6	2697.8	2699.5
45°	3068.4	3029.7	2994.2	2976.0	2960.3	2945.5	2950.4	2950.4
47.5°	3426.0	3365.6	3307.8	3276.5	3249.2	3236.9	3228.6	3226.2
50°	3861.0	3776.8	3702.4	3643.8	3604.2	3603.4	3607.6	3581.1
52.5°	4394.2	4261.4	4168.9	4089.6	4052.5	4048.4	4035.2	4020.3
55°	4985.4	4827.6	4675.0	4589.9	4541.2	4514.8	4499.1	4474.3
57.5°	5594.6	5382.4	5162.8	5026.6	4940.8	4881.3	4850.0	4835.9
60°	6064.3	5774.6	5484.8	5266.0	5123.2	5034.8	4980.4	4958.1
62.5°	6249.2	5856.2	5484.8	5197.5	4991.1	4869.0	4795.4	4763.3
65°	6028.8	5563.2	5140.5	4823.5	4593.2	4457.0	4377.0	4342.3
67.5°	5413.0	5001.8	4542.0	4226.7	3989.8	3855.2	3768.5	3742.9
70°	4538.0	4117.7	3678.5	3397.0	3185.7	3075.9	2986.0	2975.2
72.5°	3410.2	3047.8	2671.4	2438.6	2268.6	2086.9	2040.7	2063.8
75°	2186.0	1846.7	1511.6	1301.8	1146.6	973.3	906.4	922.9
77.5°	1035.2	801.6	578.7	447.4	375.6	321.2	307.1	298.8
80°	383.9	311.2	274.9	260.8	251.0	241.9	235.3	227.8
82.5°	248.4	242.7	235.3	232.8	225.4	213.8	192.4	183.3
85°	185.8	185.8	175.8	176.6	170.9	156.0	136.2	125.5
87.5°	54.4	48.7	44.6	41.3	40.4	36.3	26.4	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)