

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: P147377

Luminaire Tested: **TLM-F06-LED-E1-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147377
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-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16384.7 lumens
Efficiency: N/A
Efficacy: 104.7 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

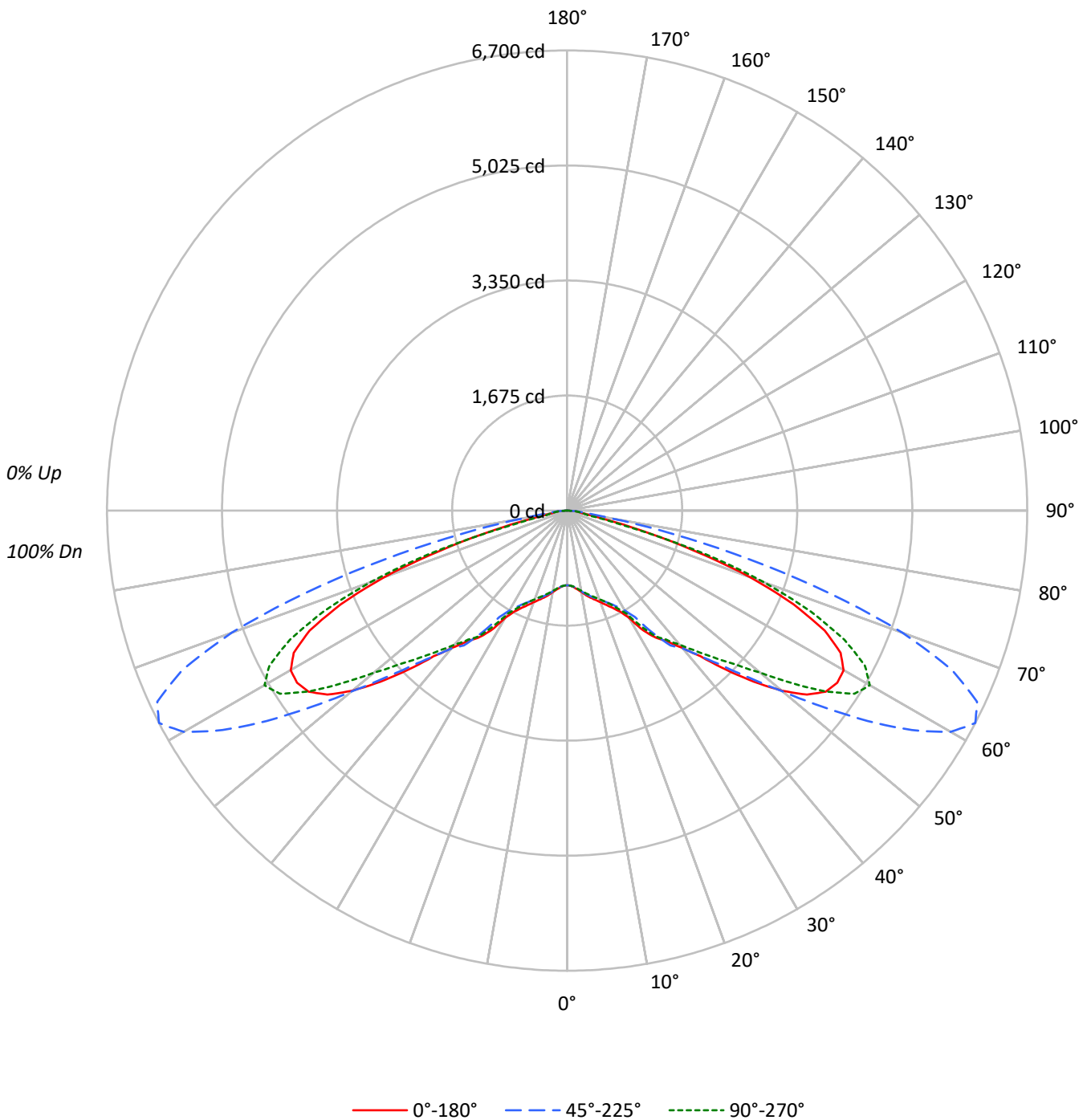
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P147377

CATALOG NUMBER: TLM-F06-LED-E1-5MQ-7060

Luminous Intensity Polar Plot





TEST NUMBER: P147377

CATALOG NUMBER: TLM-F06-LED-E1-5MQ-7060

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°	11707	11707	11707
5°	12099	12036	12009
10°	13166	13026	12962
15°	14613	14340	14197
20°	16243	15854	15719
25°	18542	17786	17928
30°	22395	20888	21604
35°	29731	28639	29363
40°	36660	36767	35827
45°	49942	48522	46085
50°	68299	68654	61534
55°	86271	100227	86158
60°	100059	138738	109523
65°	105373	167722	113482
70°	89386	163501	96080
75°	45340	114776	39384
80°	14387	39851	14493
85°	15586	20724	15907



TEST NUMBER: P147377

CATALOG NUMBER: TLM-F06-LED-E1-5MQ-7060

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	0.7
10°-20°	368.4	2.2
20°-30°	712.4	4.3
30°-40°	1379.3	8.4
40°-50°	2490.5	15.2
50°-60°	4330.6	26.4
60°-70°	4916.4	30.0
70°-80°	1906.1	11.6
80°-90°	172.0	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°	1189.8	7.3
0°-40°	2569.1	15.7
0°-60°	9390.3	57.3
0°-90°	16384.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16384.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1120	1118	1114	1113	1111	110
15°	1311	1302	1287	1277	1274	375
25°	1561	1529	1498	1499	1510	735
35°	2263	2219	2180	2218	2235	1414
45°	3281	3205	3188	3063	3027	2570
55°	4597	4818	5341	4753	4591	4047
65°	4137	4750	6585	5112	4456	3944
75°	1090	1525	2760	1443	947	1320
85°	126	181	168	181	129	124
90°	0	0	0	0	0	



TEST NUMBER: P147377

CATALOG NUMBER: TLM-F06-LED-E1-5MQ-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6
2.5°	1094.4	1097.8	1096.9	1095.2	1095.2	1095.2	1094.4	1091.8	1091.0	1092.7	1094.4
5°	1119.8	1119.8	1119.8	1119.8	1118.2	1118.1	1116.4	1114.8	1115.6	1113.9	1113.1
7.5°	1158.8	1156.2	1156.2	1155.4	1155.4	1153.8	1151.2	1147.8	1148.6	1147.8	1147.0
10°	1204.6	1205.4	1202.8	1205.4	1201.2	1200.3	1196.9	1195.2	1194.4	1191.8	1191.8
12.5°	1259.6	1257.1	1257.1	1255.4	1253.7	1252.0	1246.9	1246.1	1242.6	1241.0	1238.4
15°	1311.3	1310.4	1307.0	1303.6	1302.8	1301.1	1295.2	1291.8	1290.9	1286.8	1283.4
17.5°	1362.9	1361.2	1357.0	1355.3	1352.0	1349.4	1344.3	1339.2	1336.7	1335.0	1330.8
20°	1418.0	1416.3	1412.1	1408.7	1404.4	1401.0	1393.4	1389.2	1386.6	1384.1	1380.8
22.5°	1486.6	1483.2	1476.4	1470.5	1461.2	1457.8	1447.7	1441.8	1437.4	1434.1	1432.4
25°	1561.2	1562.0	1552.6	1545.1	1534.0	1524.8	1512.0	1505.2	1501.1	1497.6	1496.8
27.5°	1654.4	1655.2	1646.7	1635.7	1618.8	1608.6	1591.6	1583.2	1580.6	1577.3	1576.4
30°	1801.8	1794.1	1779.8	1761.9	1746.6	1724.6	1700.1	1691.6	1683.1	1680.6	1680.6
32.5°	2072.8	2068.6	2056.7	2012.6	1992.4	1946.6	1903.4	1878.8	1850.8	1837.3	1828.8
35°	2262.6	2260.8	2251.6	2236.3	2223.6	2214.2	2188.8	2184.6	2179.6	2179.5	2186.3
37.5°	2402.3	2392.1	2390.4	2393.0	2389.6	2391.3	2411.6	2439.6	2463.3	2475.2	2473.5
40°	2609.0	2594.6	2603.0	2597.1	2589.5	2587.8	2594.6	2605.6	2616.6	2616.6	2614.1
42.5°	2879.2	2886.0	2889.4	2864.8	2848.8	2844.4	2860.6	2857.2	2868.2	2864.0	2853.0
45°	3280.8	3276.4	3270.6	3240.9	3215.5	3195.1	3199.4	3193.4	3194.3	3187.5	3179.1
47.5°	3685.6	3700.0	3675.4	3661.1	3632.3	3617.8	3629.7	3619.6	3639.0	3603.4	3586.5
50°	4078.6	4088.8	4080.4	4060.0	4060.0	4080.4	4094.8	4113.4	4140.5	4099.8	4038.8
52.5°	4400.6	4409.0	4421.8	4438.7	4480.2	4523.4	4584.4	4649.6	4701.3	4693.6	4624.2
55°	4597.1	4607.2	4628.4	4686.8	4761.4	4874.9	5013.0	5164.6	5283.2	5340.8	5290.0
57.5°	4663.2	4670.8	4728.4	4798.7	4914.8	5083.3	5314.5	5576.3	5804.2	5949.0	5926.1
60°	4647.9	4647.9	4706.4	4802.9	4965.6	5189.2	5516.2	5878.8	6227.7	6444.6	6412.4
62.5°	4487.8	4496.2	4580.2	4696.2	4892.7	5160.4	5550.0	6013.4	6431.0	6700.4	6674.1
65°	4137.2	4143.0	4233.7	4371.8	4591.2	4908.0	5334.0	5847.4	6326.0	6585.2	6536.0
67.5°	3570.4	3576.3	3650.0	3806.0	4038.0	4369.2	4829.2	5394.2	5862.6	6067.6	5920.2
70°	2840.2	2857.2	2904.6	3069.8	3246.0	3570.4	3994.0	4559.0	5001.2	5195.2	5032.5
72.5°	1935.6	1978.8	2036.4	2182.9	2351.5	2620.8	2958.0	3434.0	3789.0	4013.4	3868.6
75°	1090.2	1151.2	1169.0	1280.0	1418.9	1631.4	1878.0	2219.4	2577.6	2759.8	2585.2
77.5°	471.0	521.0	543.0	594.7	703.0	792.0	942.0	1172.4	1449.4	1577.2	1368.0
80°	232.1	244.0	253.3	269.4	299.8	328.6	399.8	500.6	614.1	642.9	511.6
82.5°	179.6	188.0	204.2	216.8	224.5	232.1	238.8	252.4	263.4	269.4	254.1
85°	126.2	137.2	155.0	169.4	177.9	183.8	189.8	194.0	183.8	167.8	176.2
87.5°	33.0	43.2	60.1	65.2	73.7	77.9	76.2	78.8	71.2	51.6	57.6
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: P147377

CATALOG NUMBER: TLM-F06-LED-E1-5MQ-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6
2.5°	1093.6	1092.8	1093.6	1093.6	1093.6	1092.8	1092.7	1092.7
5°	1113.0	1113.1	1114.0	1112.2	1112.2	1113.0	1112.2	1111.4
7.5°	1146.1	1145.2	1145.2	1144.4	1145.2	1144.4	1144.4	1143.6
10°	1190.2	1188.4	1189.3	1186.8	1186.8	1185.9	1185.9	1185.9
12.5°	1237.6	1235.0	1235.9	1233.4	1229.1	1230.0	1230.8	1230.0
15°	1283.3	1280.8	1278.2	1276.6	1274.0	1274.8	1274.8	1274.0
17.5°	1329.9	1324.8	1324.0	1321.4	1320.6	1320.6	1320.6	1321.4
20°	1378.2	1374.8	1374.0	1371.4	1370.6	1373.1	1374.0	1372.3
22.5°	1429.8	1428.2	1429.9	1428.2	1430.7	1432.4	1433.2	1431.6
25°	1495.0	1493.4	1496.0	1501.8	1505.2	1507.0	1511.2	1509.5
27.5°	1578.9	1577.2	1583.2	1591.6	1596.8	1605.2	1609.4	1611.1
30°	1687.4	1695.0	1698.4	1715.3	1718.8	1732.2	1732.3	1738.2
32.5°	1845.0	1859.3	1884.8	1911.0	1947.4	1973.7	1973.6	1987.2
35°	2190.6	2196.4	2216.0	2220.2	2227.8	2236.3	2227.8	2234.6
37.5°	2455.6	2429.4	2410.8	2384.6	2368.4	2368.4	2370.1	2368.4
40°	2591.2	2581.0	2572.6	2550.5	2547.2	2546.3	2546.3	2549.7
42.5°	2833.4	2808.9	2795.4	2776.7	2770.8	2769.1	2768.2	2769.9
45°	3148.6	3108.8	3072.4	3053.7	3037.6	3022.4	3027.4	3027.4
47.5°	3515.4	3453.5	3394.2	3362.0	3334.1	3321.4	3312.9	3310.4
50°	3961.8	3875.4	3799.2	3739.0	3698.4	3697.5	3701.7	3674.6
52.5°	4509.0	4372.6	4277.7	4196.4	4158.3	4154.0	4140.6	4125.3
55°	5115.5	4953.7	4797.0	4709.7	4659.8	4632.6	4616.6	4591.1
57.5°	5740.6	5523.0	5297.6	5157.8	5069.8	5008.8	4976.6	4962.2
60°	6222.6	5925.3	5628.0	5403.5	5257.0	5166.3	5110.4	5087.5
62.5°	6412.4	6009.2	5628.0	5333.2	5121.4	4996.0	4920.7	4887.6
65°	6186.2	5708.4	5274.8	4949.5	4713.1	4573.4	4491.2	4455.6
67.5°	5554.3	5132.4	4660.6	4337.0	4094.0	3955.8	3866.9	3840.6
70°	4656.4	4225.2	3774.6	3485.8	3268.9	3156.2	3063.9	3052.9
72.5°	3499.2	3127.4	2741.2	2502.2	2327.8	2141.4	2094.0	2117.7
75°	2243.0	1895.0	1551.0	1335.9	1176.6	998.7	930.1	947.0
77.5°	1062.2	822.5	593.8	459.2	385.4	329.5	315.1	306.6
80°	393.9	319.4	282.1	267.7	257.5	248.2	241.4	233.8
82.5°	255.0	249.0	241.4	238.9	231.2	219.4	197.4	188.1
85°	190.6	190.6	180.5	181.2	175.4	160.1	139.8	128.8
87.5°	55.9	50.0	45.8	42.3	41.5	37.3	27.1	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)