

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: P147369

Luminaire Tested: **TLM-E06-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147369
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-E06-LED-E1-5MQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

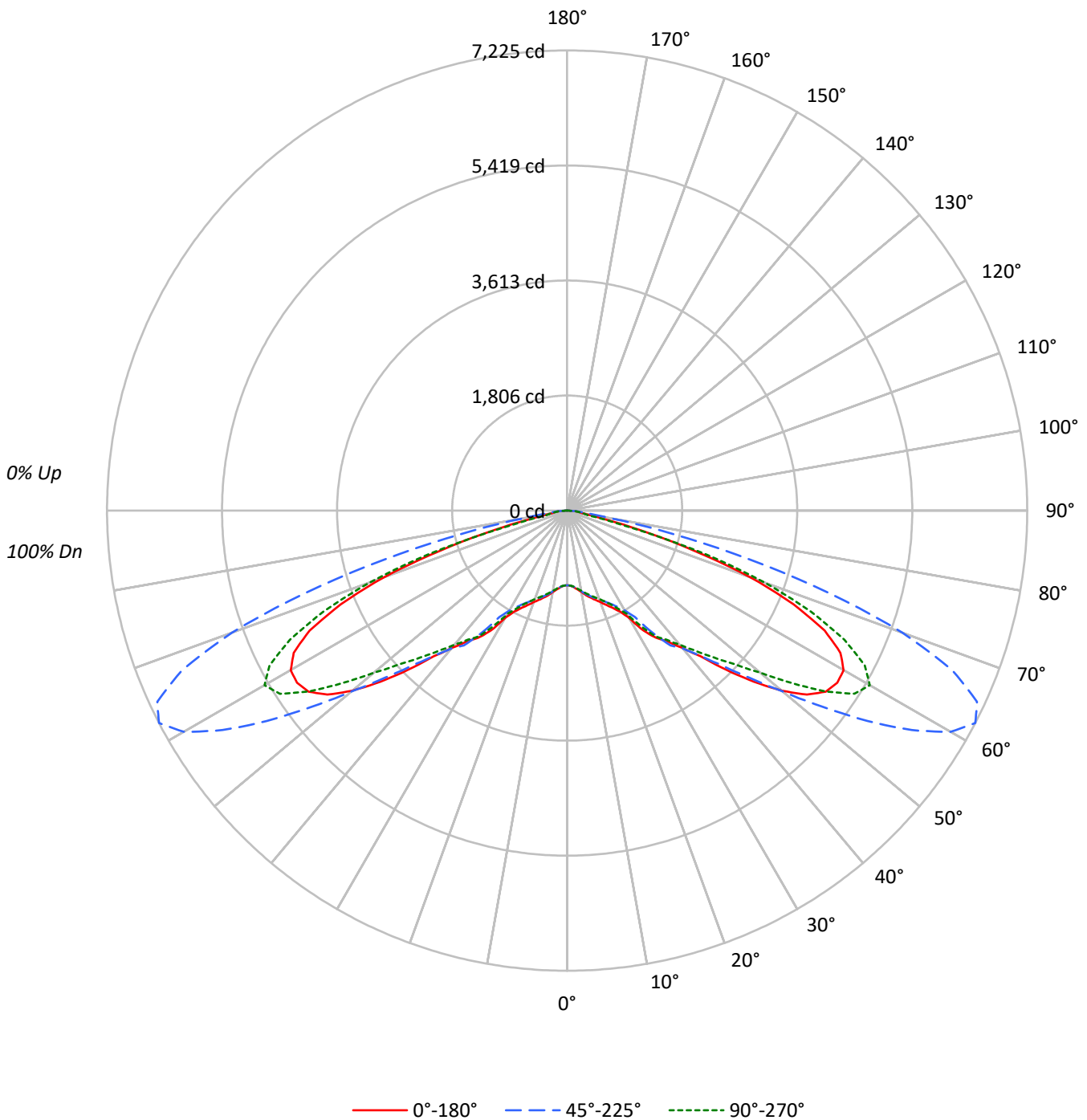
Lumens per Lamp: N/A
Luminaire Lumens: 17666.6 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
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



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Luminous Intensity Polar Plot





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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°	12623	12623	12623
5°	13046	12977	12948
10°	14196	14046	13976
15°	15755	15461	15308
20°	17514	17095	16948
25°	19992	19178	19330
30°	24146	22522	23295
35°	32057	30880	31660
40°	39528	39644	38630
45°	53848	52318	49691
50°	73644	74026	66348
55°	93021	108068	92901
60°	107889	149593	118093
65°	113615	180844	122361
70°	96379	176291	103595
75°	48887	123755	42466
80°	15515	42969	15627
85°	16809	22342	17142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	0.7
10°-20°	397.3	2.2
20°-30°	768.1	4.3
30°-40°	1487.2	8.4
40°-50°	2685.4	15.2
50°-60°	4669.4	26.4
60°-70°	5301.0	30.0
70°-80°	2055.2	11.6
80°-90°	185.4	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°	1282.9	7.3
0°-40°	2770.2	15.7
0°-60°	10125.0	57.3
0°-90°	17666.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17666.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1207	1206	1201	1200	1198	118
15°	1414	1404	1387	1377	1374	404
25°	1683	1649	1615	1616	1628	793
35°	2440	2393	2350	2392	2409	1524
45°	3537	3456	3437	3303	3264	2771
55°	4957	5195	5759	5125	4950	4364
65°	4461	5121	7100	5512	4804	4253
75°	1176	1644	2976	1556	1021	1424
85°	136	195	181	195	139	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7
2.5°	1180.1	1183.7	1182.8	1181.0	1181.0	1180.9	1180.0	1177.3	1176.4	1178.2	1180.0
5°	1207.4	1207.4	1207.4	1207.4	1205.6	1205.6	1203.8	1201.9	1202.8	1201.0	1200.2
7.5°	1249.5	1246.8	1246.8	1245.8	1245.8	1244.0	1241.2	1237.6	1238.5	1237.6	1236.6
10°	1298.8	1299.7	1296.9	1299.7	1295.2	1294.2	1290.6	1288.7	1287.8	1285.1	1285.1
12.5°	1358.2	1355.4	1355.4	1353.6	1351.8	1349.9	1344.4	1343.6	1339.9	1338.1	1335.4
15°	1413.8	1413.0	1409.3	1405.6	1404.8	1402.9	1396.5	1392.9	1392.0	1387.4	1383.7
17.5°	1469.6	1467.8	1463.2	1461.4	1457.7	1454.9	1449.5	1444.0	1441.3	1439.4	1434.8
20°	1529.0	1527.1	1522.6	1518.9	1514.4	1510.7	1502.5	1497.9	1495.2	1492.4	1488.8
22.5°	1603.0	1599.3	1592.0	1585.6	1575.6	1571.9	1560.9	1554.6	1550.0	1546.3	1544.4
25°	1683.3	1684.2	1674.2	1666.0	1654.1	1644.0	1630.4	1623.0	1618.4	1614.8	1613.8
27.5°	1783.8	1784.7	1775.6	1763.6	1745.4	1734.4	1716.2	1707.0	1704.4	1700.6	1699.8
30°	1942.7	1934.5	1919.0	1899.8	1883.4	1859.6	1833.0	1824.0	1814.8	1812.0	1812.1
32.5°	2235.0	2230.4	2217.6	2170.2	2148.2	2098.8	2052.3	2025.8	1995.7	1981.0	1971.9
35°	2439.6	2437.7	2427.7	2411.2	2397.6	2387.5	2360.1	2355.5	2350.0	2350.0	2357.4
37.5°	2590.2	2579.3	2577.4	2580.2	2576.6	2578.4	2600.3	2630.4	2656.0	2668.8	2667.0
40°	2813.1	2797.6	2806.8	2800.4	2792.1	2790.3	2797.6	2809.4	2821.4	2821.4	2818.6
42.5°	3104.4	3111.8	3115.4	3089.0	3071.6	3067.0	3084.4	3080.7	3092.6	3088.0	3076.1
45°	3537.4	3532.8	3526.4	3494.5	3467.0	3445.2	3449.8	3443.3	3444.2	3436.9	3427.8
47.5°	3974.0	3989.5	3963.0	3947.5	3916.4	3900.9	3913.8	3902.8	3923.8	3885.4	3867.2
50°	4397.8	4408.7	4399.6	4377.6	4377.7	4399.6	4415.2	4435.2	4464.5	4420.6	4354.8
52.5°	4744.8	4754.0	4767.6	4786.0	4830.7	4877.3	4943.0	5013.4	5069.1	5060.9	4986.0
55°	4956.8	4967.7	4990.6	5053.6	5134.0	5256.4	5405.2	5568.7	5696.6	5758.6	5703.8
57.5°	5028.0	5036.2	5098.4	5174.1	5299.2	5481.0	5730.4	6012.6	6258.2	6414.5	6389.8
60°	5011.6	5011.6	5074.5	5178.7	5354.0	5595.2	5947.8	6338.6	6715.0	6948.8	6914.0
62.5°	4839.0	4848.0	4938.5	5063.6	5275.6	5564.1	5984.2	6483.8	6934.2	7224.6	7196.3
65°	4460.8	4467.2	4564.9	4713.8	4950.4	5292.0	5751.4	6304.8	6820.9	7100.4	7047.4
67.5°	3849.8	3856.2	3935.6	4103.7	4354.0	4711.1	5207.0	5816.2	6321.3	6542.3	6383.4
70°	3062.4	3080.7	3131.9	3310.0	3500.0	3849.8	4306.4	4915.6	5392.4	5601.6	5426.2
72.5°	2087.0	2133.6	2195.7	2353.7	2535.4	2825.9	3189.4	3702.7	4085.4	4327.5	4171.2
75°	1175.5	1241.2	1260.4	1380.1	1529.8	1759.2	2024.9	2393.0	2779.3	2975.7	2787.6
77.5°	507.8	561.7	585.4	641.2	758.0	854.0	1015.6	1264.0	1562.7	1700.6	1475.0
80°	250.3	263.0	273.1	290.5	323.4	354.4	431.1	539.8	662.2	693.2	551.6
82.5°	193.6	202.8	220.2	233.8	242.0	250.2	257.6	272.2	284.0	290.4	274.0
85°	136.1	148.0	167.2	182.6	191.8	198.2	204.6	209.2	198.2	180.9	190.0
87.5°	35.6	46.6	64.8	70.4	79.5	84.0	82.2	85.0	76.7	55.8	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7	1172.7
2.5°	1179.2	1178.2	1179.2	1179.1	1179.2	1178.2	1178.2	1178.2
5°	1200.2	1200.2	1201.1	1199.2	1199.2	1200.2	1199.2	1198.3
7.5°	1235.8	1234.8	1234.8	1234.0	1234.8	1233.9	1234.0	1233.0
10°	1283.2	1281.4	1282.4	1279.6	1279.6	1278.7	1278.7	1278.7
12.5°	1334.4	1331.6	1332.6	1329.8	1325.3	1326.2	1327.1	1326.2
15°	1383.7	1381.0	1378.2	1376.4	1373.7	1374.6	1374.6	1373.7
17.5°	1433.9	1428.5	1427.6	1424.8	1423.9	1423.9	1423.9	1424.8
20°	1486.1	1482.4	1481.4	1478.7	1477.8	1480.5	1481.4	1479.6
22.5°	1541.8	1539.9	1541.7	1539.9	1542.6	1544.4	1545.4	1543.6
25°	1612.1	1610.2	1613.0	1619.4	1623.0	1624.8	1629.4	1627.6
27.5°	1702.5	1700.6	1707.0	1716.2	1721.7	1730.8	1735.4	1737.2
30°	1819.4	1827.6	1831.2	1849.6	1853.2	1867.8	1867.8	1874.2
32.5°	1989.3	2004.8	2032.2	2060.6	2099.8	2128.1	2128.1	2142.7
35°	2361.9	2368.3	2389.3	2393.9	2402.1	2411.2	2402.1	2409.4
37.5°	2647.9	2619.5	2599.4	2571.0	2553.8	2553.8	2555.6	2553.7
40°	2794.0	2783.0	2773.9	2750.1	2746.4	2745.6	2745.6	2749.2
42.5°	3055.2	3028.6	3014.0	2994.0	2987.6	2985.8	2984.8	2986.7
45°	3394.9	3352.0	3312.8	3292.6	3275.2	3258.8	3264.4	3264.3
47.5°	3790.4	3723.8	3659.8	3625.1	3595.0	3581.2	3572.2	3569.4
50°	4271.8	4178.6	4096.4	4031.6	3987.7	3986.8	3991.4	3962.1
52.5°	4861.8	4714.8	4612.4	4524.8	4483.6	4479.1	4464.4	4448.0
55°	5515.8	5341.3	5172.3	5078.2	5024.4	4995.1	4977.8	4950.4
57.5°	6189.8	5955.0	5712.1	5561.4	5466.4	5400.6	5366.0	5350.4
60°	6709.4	6388.9	6068.3	5826.2	5668.2	5570.5	5510.2	5485.6
62.5°	6914.0	6479.3	6068.3	5750.5	5522.1	5387.0	5305.6	5270.0
65°	6670.2	6155.1	5687.4	5336.7	5081.8	4931.2	4842.6	4804.2
67.5°	5988.8	5534.0	5025.2	4676.4	4414.2	4265.4	4169.5	4141.1
70°	5020.7	4555.8	4069.9	3758.4	3524.6	3403.2	3303.6	3291.7
72.5°	3773.0	3372.1	2955.6	2698.0	2509.9	2309.0	2257.8	2283.4
75°	2418.6	2043.2	1672.4	1440.4	1268.6	1076.8	1002.9	1021.1
77.5°	1145.4	886.8	640.2	495.0	415.6	355.3	339.8	330.6
80°	424.7	344.4	304.1	288.6	277.6	267.6	260.3	252.1
82.5°	275.0	268.6	260.3	257.6	249.4	236.6	212.8	202.8
85°	205.5	205.5	194.5	195.4	189.1	172.6	150.7	138.8
87.5°	60.3	53.8	49.3	45.7	44.8	40.2	29.2	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)