

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: P147889

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147889
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
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-E1-5WQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

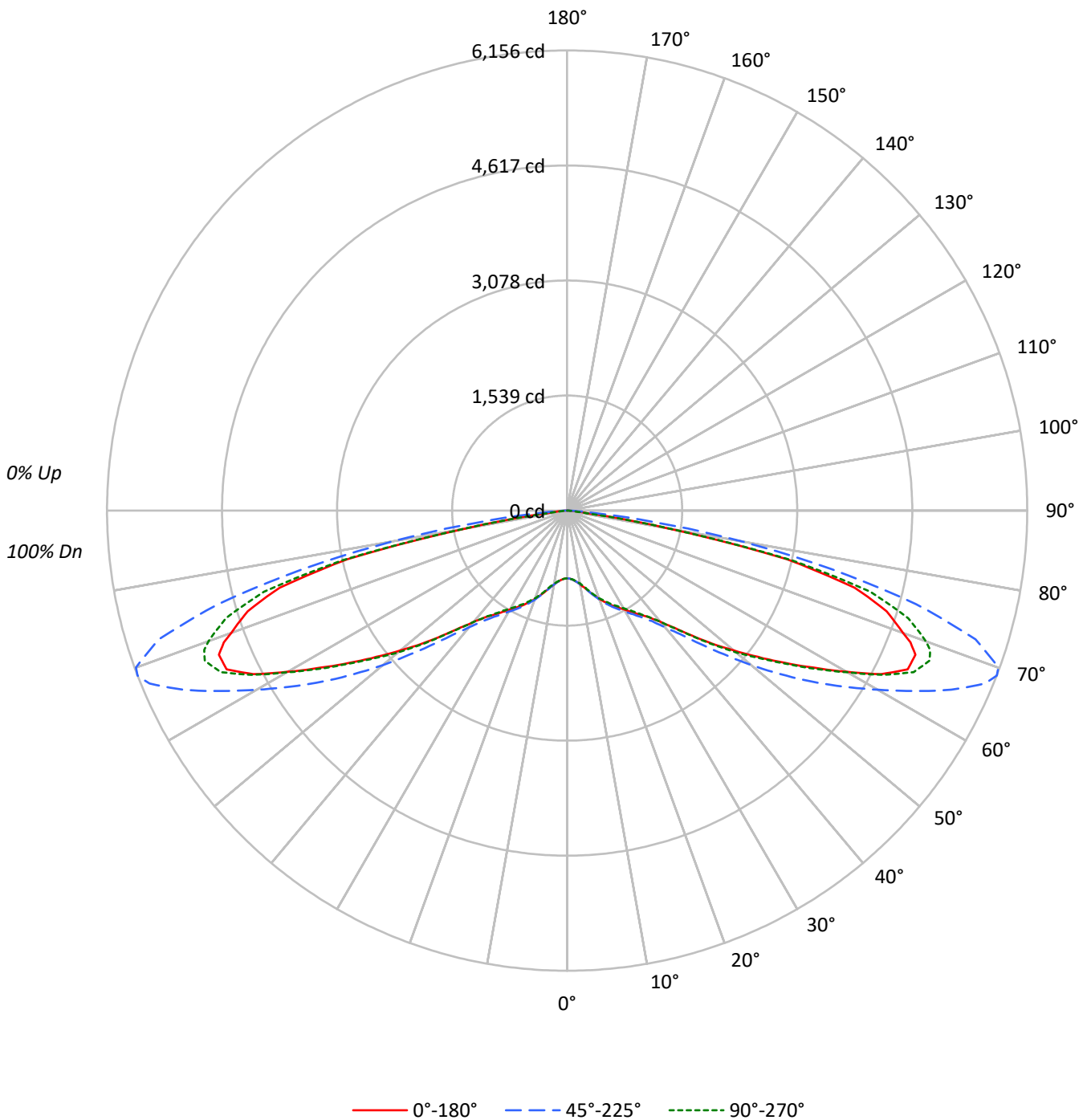
Lumens per Lamp: N/A
Luminaire Lumens: 17447.5 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9752	9752	9752
5°	10066	10066	10027
10°	10962	10941	10841
15°	12437	12499	12316
20°	14396	14521	14270
25°	16575	16835	16336
30°	18980	19412	18754
35°	22323	22923	22131
40°	27285	28542	27285
45°	36038	38373	36176
50°	48728	53775	49401
55°	66607	74834	66984
60°	92806	103189	93162
65°	127992	144461	130223
70°	150390	193220	160625
75°	165464	200864	174655
80°	83676	146407	86168
85°	10831	39706	8349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	0.5
10°-20°	321.3	1.8
20°-30°	650.5	3.7
30°-40°	1090.6	6.3
40°-50°	1923.8	11.0
50°-60°	3392.6	19.4
60°-70°	5179.5	29.7
70°-80°	4328.0	24.8
80°-90°	470.3	2.7
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°	1062.8	6.1
0°-40°	2153.4	12.3
0°-60°	7469.8	42.8
0°-90°	17447.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17447.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	932	933	932	929	928	91
15°	1116	1122	1122	1112	1105	322
25°	1396	1403	1418	1393	1376	648
35°	1699	1710	1744	1707	1684	1079
45°	2367	2421	2521	2443	2376	1860
55°	3549	3717	3988	3747	3569	3216
65°	5025	5297	5672	5338	5113	4810
75°	3979	4202	4830	4471	4200	3831
85°	88	146	322	127	68	288
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°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	913.4	915.2	913.4	913.4	913.4	913.4	913.4	911.5	911.5	911.5	913.4
5°	931.6	933.4	931.6	933.4	933.4	933.4	933.4	931.6	931.6	931.6	931.6
7.5°	960.8	960.8	960.8	962.7	960.8	960.8	962.7	960.8	960.8	960.8	960.8
10°	1002.9	1001.0	1001.0	1001.0	1001.0	1001.0	1002.9	1002.9	1002.9	1001.0	1001.0
12.5°	1054.0	1052.2	1054.0	1054.0	1055.8	1055.8	1055.8	1055.8	1055.8	1055.8	1054.0
15°	1116.1	1116.1	1116.1	1117.9	1121.6	1121.6	1119.8	1121.6	1121.6	1121.6	1121.6
17.5°	1185.5	1189.2	1185.5	1187.4	1189.2	1187.4	1191.0	1192.8	1194.7	1192.8	1187.4
20°	1256.8	1258.6	1258.6	1258.6	1258.6	1262.3	1264.1	1264.1	1269.6	1267.7	1265.9
22.5°	1324.4	1328.0	1328.0	1329.8	1329.8	1335.3	1335.3	1335.3	1339.0	1342.6	1339.0
25°	1395.6	1393.8	1393.8	1397.4	1399.3	1406.6	1406.6	1410.2	1415.7	1417.5	1413.9
27.5°	1459.5	1457.7	1457.7	1463.2	1465.0	1474.1	1474.1	1481.5	1485.1	1486.9	1483.3
30°	1527.1	1527.1	1525.3	1530.8	1536.3	1543.6	1547.2	1554.5	1560.0	1561.8	1558.2
32.5°	1607.5	1603.8	1605.7	1609.3	1613.0	1620.3	1625.8	1634.9	1642.2	1644.0	1640.4
35°	1698.8	1693.4	1695.2	1698.8	1704.3	1715.3	1724.4	1729.9	1740.8	1744.5	1737.2
37.5°	1799.3	1801.1	1799.3	1808.4	1817.6	1830.4	1841.3	1848.6	1859.6	1865.1	1859.6
40°	1941.8	1936.3	1941.8	1950.9	1965.5	1982.0	2003.9	2009.4	2020.3	2031.3	2018.5
42.5°	2126.3	2122.6	2135.4	2142.7	2159.2	2177.4	2204.8	2219.4	2235.9	2243.2	2232.2
45°	2367.4	2367.4	2382.0	2383.8	2409.4	2433.2	2471.5	2489.8	2520.8	2520.8	2520.8
47.5°	2634.1	2645.1	2654.2	2672.5	2690.7	2734.6	2772.9	2813.1	2842.3	2846.0	2840.5
50°	2909.9	2920.9	2948.3	2973.9	3014.1	3068.9	3110.9	3163.8	3189.4	3211.3	3204.0
52.5°	3215.0	3216.8	3249.7	3282.6	3341.0	3401.3	3468.9	3523.7	3569.4	3589.5	3573.0
55°	3549.3	3552.9	3582.2	3616.9	3682.6	3752.0	3836.1	3892.7	3951.2	3987.7	3960.3
57.5°	3911.0	3912.8	3942.0	3984.0	4062.6	4132.0	4212.4	4292.7	4347.5	4380.4	4362.2
60°	4311.0	4320.1	4342.1	4395.0	4469.9	4543.0	4623.4	4694.6	4758.6	4793.3	4775.0
62.5°	4738.5	4747.6	4778.6	4820.7	4886.4	4966.8	5043.5	5134.9	5187.8	5226.2	5198.8
65°	5025.3	5041.7	5091.0	5147.6	5244.5	5348.6	5438.1	5562.3	5626.2	5671.9	5646.3
67.5°	5043.5	5052.7	5112.9	5198.8	5328.5	5485.6	5668.3	5861.9	5987.9	6048.2	6004.4
69°	4919.3	4932.1	4990.5	5087.4	5231.7	5414.3	5631.7	5872.8	6066.5	6156.0	6114.0
70°	4778.6	4806.0	4870.0	4975.9	5116.6	5308.4	5533.1	5790.6	6017.2	6139.5	6108.5
72.5°	4482.7	4490.0	4532.0	4616.1	4723.8	4882.8	5094.7	5337.6	5553.2	5728.5	5754.1
75°	3978.6	4002.3	4033.4	4090.0	4144.8	4259.9	4402.3	4568.6	4694.6	4829.8	4835.3
77.5°	3006.7	3078.0	3101.7	3114.5	3138.3	3229.6	3353.8	3498.1	3602.3	3624.2	3620.5
80°	1349.9	1444.9	1466.8	1571.0	1634.9	1786.5	1976.5	2197.5	2345.5	2361.9	2321.7
82.5°	264.9	283.1	330.6	412.8	562.6	652.1	776.3	931.6	1074.1	1156.3	1107.0
85°	87.7	93.2	107.8	118.7	137.0	155.3	188.2	233.8	290.4	321.5	286.8
87.5°	34.7	34.7	40.2	43.8	47.5	47.5	47.5	43.8	42.0	34.7	31.1
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°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	911.5	911.5	911.5	911.5	911.5	911.5	911.5	911.5
5°	931.6	929.8	929.8	928.0	928.0	928.0	928.0	928.0
7.5°	959.0	957.2	955.4	957.2	955.4	955.4	955.4	955.4
10°	1001.0	997.4	995.6	993.7	993.7	993.7	991.9	991.9
12.5°	1050.4	1050.4	1048.5	1046.7	1043.0	1044.9	1043.0	1039.4
15°	1117.9	1114.3	1112.5	1110.6	1107.0	1107.0	1107.0	1105.2
17.5°	1185.5	1181.9	1181.9	1176.4	1174.6	1174.6	1174.6	1176.4
20°	1260.4	1254.9	1251.3	1247.6	1244.0	1245.8	1242.2	1245.8
22.5°	1335.3	1328.0	1324.4	1318.9	1313.4	1313.4	1311.6	1307.9
25°	1408.4	1399.3	1395.6	1390.1	1382.8	1382.8	1379.2	1375.5
27.5°	1477.8	1468.7	1465.0	1454.1	1446.7	1444.9	1441.3	1439.4
30°	1554.5	1543.6	1538.1	1527.1	1516.2	1514.3	1508.9	1508.9
32.5°	1634.9	1623.9	1620.3	1603.8	1594.7	1594.7	1591.1	1587.4
35°	1735.4	1718.9	1715.3	1698.8	1686.0	1686.0	1682.4	1684.2
37.5°	1854.1	1841.3	1828.5	1815.7	1801.1	1799.3	1795.6	1792.0
40°	2013.0	1998.4	1983.8	1965.5	1952.7	1949.1	1943.6	1941.8
42.5°	2224.9	2210.3	2181.1	2166.5	2153.7	2142.7	2140.9	2139.1
45°	2495.3	2477.0	2456.9	2429.5	2413.1	2389.3	2385.7	2376.5
47.5°	2820.4	2785.7	2751.0	2727.3	2701.7	2674.3	2668.8	2654.2
50°	3165.7	3138.3	3079.8	3041.5	3001.3	2973.9	2955.6	2950.1
52.5°	3536.5	3485.3	3426.9	3375.7	3317.3	3280.8	3247.9	3238.7
55°	3923.8	3850.7	3777.6	3717.3	3658.9	3615.0	3584.0	3569.4
57.5°	4311.0	4230.6	4150.3	4084.5	4035.2	3978.6	3947.5	3940.2
60°	4714.7	4638.0	4555.8	4490.0	4429.7	4380.4	4362.2	4327.5
62.5°	5142.2	5061.8	4985.1	4921.1	4844.4	4809.7	4778.6	4758.6
65°	5562.3	5469.1	5372.3	5304.7	5228.0	5178.7	5140.3	5112.9
67.5°	5887.5	5746.8	5617.1	5503.8	5399.7	5323.0	5273.7	5248.1
69°	5978.8	5803.4	5637.2	5489.2	5366.8	5281.0	5226.2	5200.6
70°	5967.8	5774.2	5591.5	5429.0	5295.6	5204.3	5151.3	5103.8
72.5°	5629.9	5452.7	5249.9	5072.7	4952.2	4864.5	4811.5	4786.0
75°	4804.2	4685.5	4539.4	4402.3	4314.7	4263.5	4197.8	4199.6
77.5°	3498.1	3501.8	3403.1	3262.5	3163.8	3145.6	3116.4	3087.1
80°	2170.1	1996.6	1883.3	1731.7	1620.3	1523.5	1481.5	1390.1
82.5°	1001.0	781.8	606.5	458.5	352.6	275.8	241.1	197.3
85°	222.9	169.9	140.7	113.3	96.8	89.5	73.1	67.6
87.5°	31.1	27.4	25.6	23.7	20.1	14.6	11.0	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)