

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: P147358

Luminaire Tested: **TLM-E05-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147358
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-E05-LED-E1-5MQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

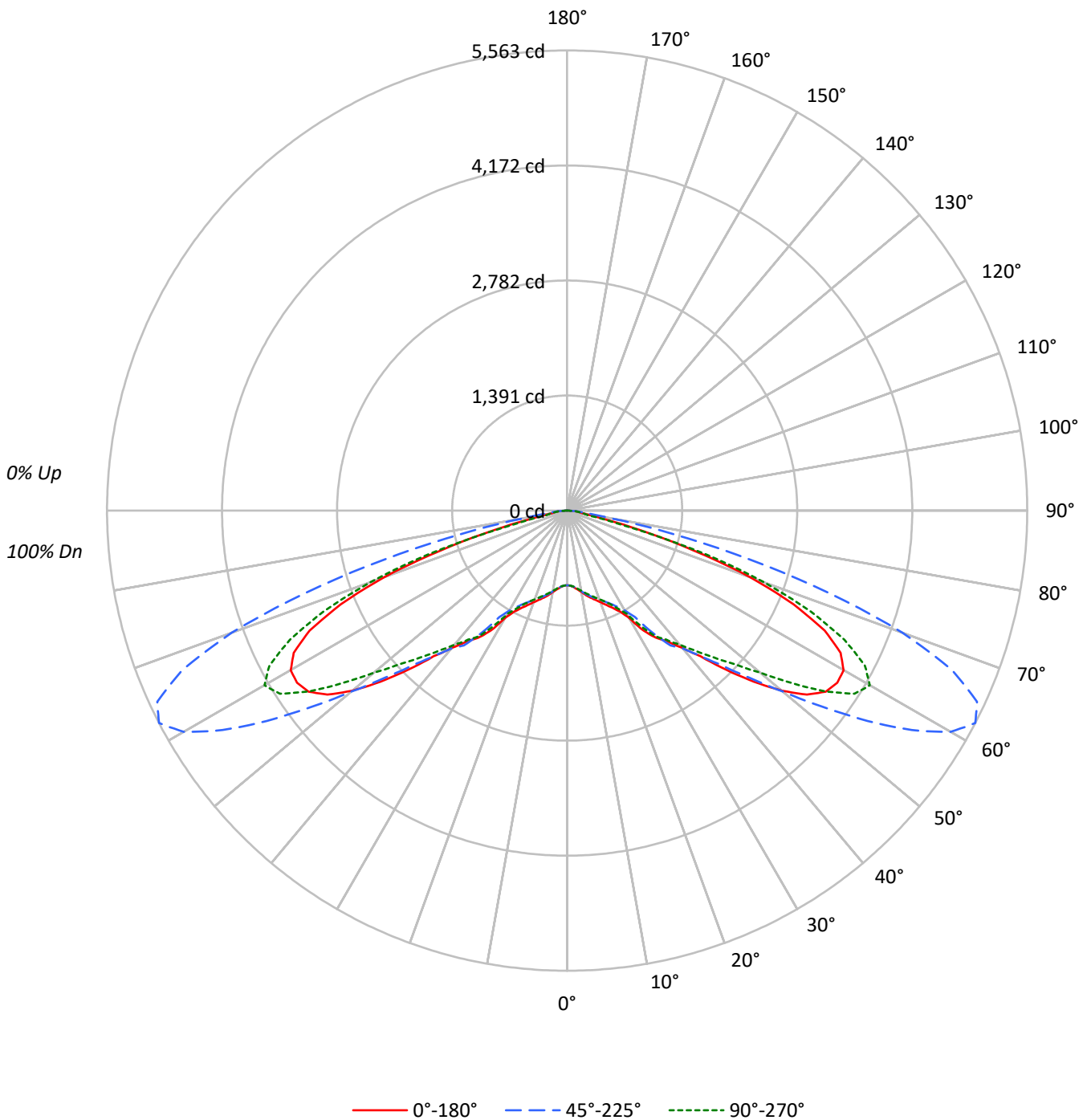
Lumens per Lamp: N/A
Luminaire Lumens: 13604.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
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°	11712	11712	11712
5°	12104	12039	12013
10°	13171	13032	12967
15°	14618	14344	14202
20°	16249	15860	15725
25°	18548	17792	17934
30°	22401	20896	21612
35°	29741	28649	29374
40°	36672	36781	35839
45°	49959	48540	46102
50°	68326	68679	61556
55°	86302	100264	86189
60°	100097	138787	109564
65°	105407	167780	113524
70°	89417	163557	96113
75°	45352	114815	39399
80°	14391	39866	14496
85°	15594	20713	15906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	0.7
10°-20°	305.9	2.2
20°-30°	591.5	4.3
30°-40°	1145.2	8.4
40°-50°	2067.9	15.2
50°-60°	3595.7	26.4
60°-70°	4082.1	30.0
70°-80°	1582.6	11.6
80°-90°	142.8	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°	987.9	7.3
0°-40°	2133.2	15.7
0°-60°	7796.7	57.3
0°-90°	13604.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13604.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	930	928	925	924	923	91
15°	1089	1081	1068	1061	1058	311
25°	1296	1270	1243	1244	1253	611
35°	1879	1842	1810	1842	1855	1174
45°	2724	2661	2647	2543	2514	2134
55°	3817	4000	4434	3947	3812	3361
65°	3435	3944	5468	4245	3700	3275
75°	905	1266	2291	1198	786	1096
85°	105	150	139	150	107	103
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°	903.1	903.1	903.1	903.1	903.1	903.1	903.1	903.1	903.1	903.1	903.1
2.5°	908.7	911.6	910.8	909.4	909.4	909.4	908.7	906.6	905.9	907.3	908.7
5°	929.8	929.8	929.8	929.8	928.4	928.4	927.0	925.6	926.3	924.8	924.2
7.5°	962.2	960.0	960.0	959.4	959.3	957.9	955.8	953.0	953.8	953.0	952.3
10°	1000.2	1000.8	998.8	1000.8	997.4	996.6	993.8	992.4	991.7	989.6	989.6
12.5°	1045.8	1043.8	1043.8	1042.4	1041.0	1039.5	1035.3	1034.6	1031.8	1030.4	1028.2
15°	1088.8	1088.0	1085.2	1082.4	1081.7	1080.3	1075.4	1072.6	1071.8	1068.4	1065.6
17.5°	1131.6	1130.2	1126.7	1125.3	1122.5	1120.4	1116.2	1112.0	1109.8	1108.4	1104.9
20°	1177.4	1176.0	1172.4	1169.6	1166.1	1163.3	1157.0	1153.4	1151.4	1149.2	1146.4
22.5°	1234.3	1231.6	1225.9	1221.0	1213.2	1210.4	1202.0	1197.0	1193.6	1190.7	1189.3
25°	1296.2	1296.9	1289.2	1282.8	1273.8	1266.0	1255.4	1249.8	1246.3	1243.4	1242.8
27.5°	1373.6	1374.3	1367.3	1358.1	1344.0	1335.6	1321.6	1314.6	1312.4	1309.6	1308.9
30°	1495.9	1489.6	1477.7	1462.9	1450.2	1432.0	1411.6	1404.6	1397.5	1395.4	1395.4
32.5°	1721.0	1717.6	1707.6	1671.1	1654.2	1616.2	1580.4	1560.0	1536.8	1525.6	1518.5
35°	1878.6	1877.2	1869.4	1856.8	1846.2	1838.5	1817.4	1813.8	1809.6	1809.6	1815.2
37.5°	1994.6	1986.2	1984.8	1986.9	1984.0	1985.5	2002.4	2025.6	2045.2	2055.2	2053.7
40°	2166.2	2154.3	2161.3	2156.4	2150.0	2148.7	2154.2	2163.4	2172.6	2172.6	2170.4
42.5°	2390.6	2396.2	2399.0	2378.6	2365.2	2361.8	2375.2	2372.3	2381.4	2378.0	2368.8
45°	2724.0	2720.5	2715.6	2691.0	2669.8	2653.0	2656.4	2651.6	2652.2	2646.6	2639.6
47.5°	3060.1	3072.2	3051.8	3039.8	3015.8	3003.9	3013.8	3005.4	3021.5	2992.0	2977.9
50°	3386.6	3395.0	3388.0	3371.0	3371.0	3388.0	3399.9	3415.4	3437.8	3404.1	3353.4
52.5°	3653.8	3660.8	3671.4	3685.4	3719.9	3755.8	3806.4	3860.6	3903.4	3897.2	3839.4
55°	3817.0	3825.4	3843.0	3891.5	3953.4	4047.6	4162.3	4288.2	4386.6	4434.5	4392.3
57.5°	3871.8	3878.2	3926.0	3984.4	4080.7	4220.6	4412.7	4630.0	4819.2	4939.4	4920.5
60°	3859.2	3859.2	3907.7	3987.8	4122.9	4308.6	4580.0	4881.1	5170.8	5350.9	5324.2
62.5°	3726.2	3733.2	3802.9	3899.2	4062.4	4284.6	4608.2	4992.9	5339.6	5563.3	5541.5
65°	3435.0	3440.0	3515.2	3629.8	3812.0	4075.0	4428.8	4855.1	5252.4	5467.6	5426.9
67.5°	2964.5	2969.5	3030.6	3160.0	3352.8	3627.8	4009.6	4478.8	4867.8	5038.0	4915.5
70°	2358.2	2372.3	2411.7	2548.8	2695.1	2964.5	3316.2	3785.3	4152.4	4313.5	4178.4
72.5°	1607.1	1643.0	1690.8	1812.5	1952.4	2176.1	2456.0	2851.3	3146.0	3332.4	3212.1
75°	905.1	955.8	970.6	1062.8	1178.0	1354.6	1559.3	1842.7	2140.2	2291.4	2146.6
77.5°	391.0	432.6	450.8	493.7	583.8	657.6	782.1	973.4	1203.4	1309.6	1135.9
80°	192.7	202.6	210.3	223.6	249.0	272.9	332.0	415.6	509.9	533.8	424.8
82.5°	149.1	156.1	169.5	180.0	186.4	192.7	198.3	209.6	218.7	223.6	211.0
85°	104.8	114.0	128.8	140.6	147.7	152.6	157.6	161.0	152.6	139.2	146.2
87.5°	27.4	35.9	49.9	54.2	61.2	64.7	63.3	65.4	59.1	42.9	47.8
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°	903.1	903.1	903.1	903.1	903.1	903.1	903.1	903.1
2.5°	908.0	907.3	908.0	908.0	908.0	907.3	907.3	907.3
5°	924.2	924.2	924.9	923.4	923.4	924.2	923.4	922.8
7.5°	951.6	950.9	950.9	950.2	950.9	950.2	950.2	949.5
10°	988.2	986.8	987.4	985.4	985.4	984.6	984.6	984.7
12.5°	1027.6	1025.4	1026.2	1024.0	1020.5	1021.2	1022.0	1021.2
15°	1065.5	1063.4	1061.4	1059.9	1057.8	1058.5	1058.5	1057.8
17.5°	1104.2	1100.0	1099.3	1097.2	1096.5	1096.4	1096.5	1097.2
20°	1144.3	1141.5	1140.8	1138.7	1138.0	1140.0	1140.8	1139.4
22.5°	1187.2	1185.8	1187.2	1185.8	1187.9	1189.4	1190.1	1188.6
25°	1241.4	1240.0	1242.0	1247.0	1249.8	1251.2	1254.8	1253.3
27.5°	1311.0	1309.6	1314.5	1321.6	1325.8	1332.8	1336.3	1337.7
30°	1401.0	1407.4	1410.1	1424.2	1427.0	1438.3	1438.3	1443.2
32.5°	1531.8	1543.8	1564.9	1586.7	1617.0	1638.8	1638.8	1650.0
35°	1818.8	1823.7	1839.9	1843.4	1849.8	1856.8	1849.8	1855.4
37.5°	2039.0	2017.2	2001.6	1979.8	1966.5	1966.5	1967.9	1966.5
40°	2151.5	2143.0	2136.0	2117.7	2114.9	2114.2	2114.2	2117.0
42.5°	2352.6	2332.2	2321.0	2305.5	2300.6	2299.2	2298.4	2299.9
45°	2614.2	2581.2	2551.0	2535.5	2522.1	2509.4	2513.7	2513.7
47.5°	2918.8	2867.4	2818.2	2791.5	2768.3	2757.8	2750.7	2748.6
50°	3289.4	3217.7	3154.4	3104.4	3070.7	3070.0	3073.6	3051.0
52.5°	3743.8	3630.6	3551.8	3484.3	3452.6	3449.2	3437.8	3425.2
55°	4247.4	4113.0	3982.9	3910.4	3869.0	3846.5	3833.1	3812.0
57.5°	4766.4	4585.6	4398.6	4282.6	4209.5	4158.8	4132.0	4120.1
60°	5166.6	4919.8	4672.9	4486.5	4364.8	4289.6	4243.2	4224.2
62.5°	5324.2	4989.4	4672.9	4428.2	4252.4	4148.2	4085.6	4058.2
65°	5136.4	4739.7	4379.6	4109.6	3913.3	3797.2	3729.0	3699.5
67.5°	4611.7	4261.4	3869.7	3601.0	3399.2	3284.6	3210.7	3188.9
70°	3866.2	3508.2	3134.0	2894.1	2714.1	2620.6	2544.0	2534.8
72.5°	2905.4	2596.7	2276.0	2077.6	1932.8	1778.0	1738.6	1758.3
75°	1862.4	1573.4	1287.8	1109.1	977.0	829.2	772.2	786.3
77.5°	882.0	682.9	493.0	381.2	320.0	273.6	261.6	254.6
80°	327.0	265.2	234.2	222.2	213.8	206.0	200.4	194.1
82.5°	211.7	206.8	200.4	198.3	192.0	182.2	163.9	156.1
85°	158.2	158.2	149.8	150.5	145.6	132.9	116.0	106.9
87.5°	46.4	41.5	38.0	35.2	34.4	30.9	22.5	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)