

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: P147359

Luminaire Tested: **TLM-E05-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147359
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

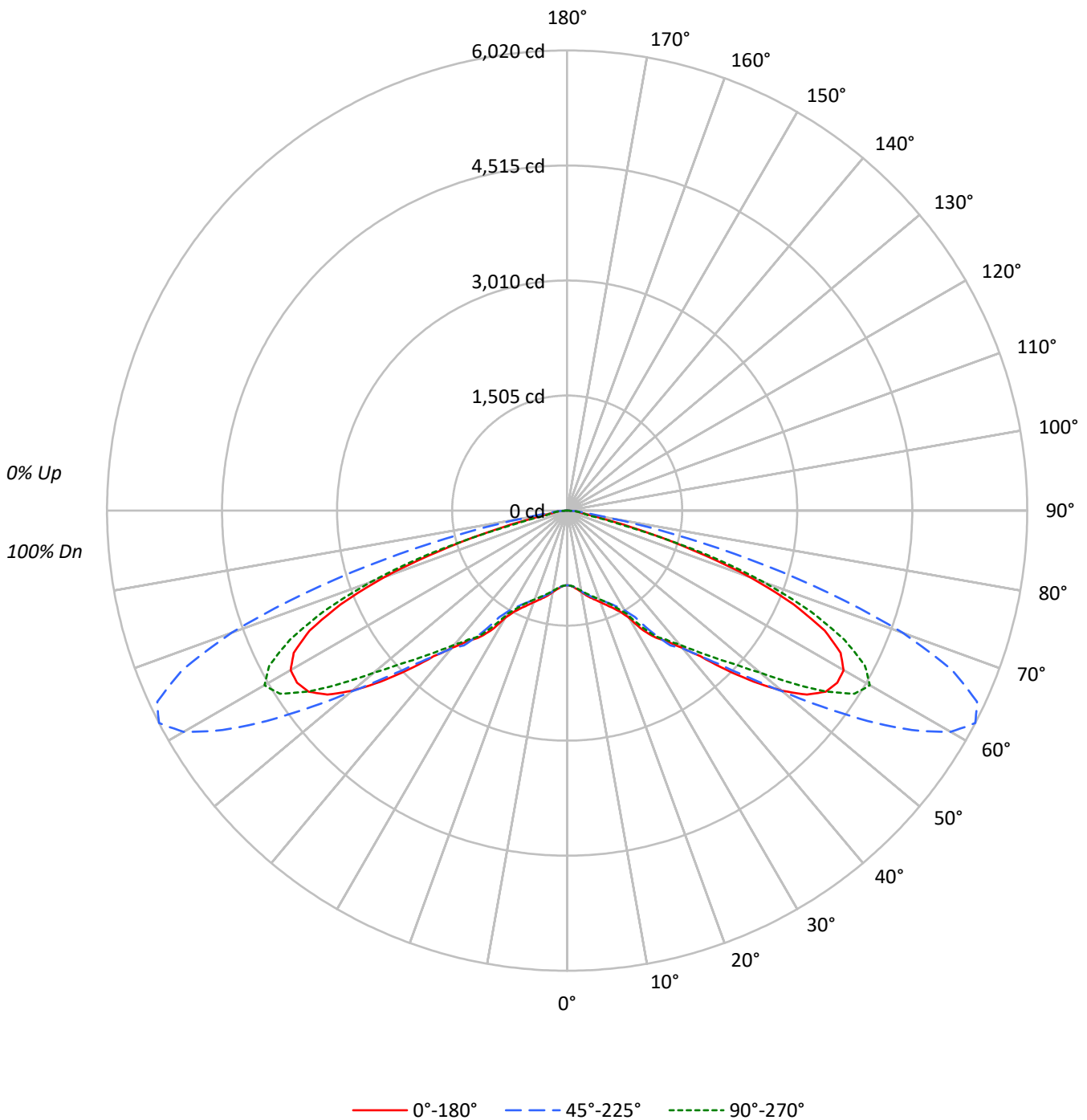
Lumens per Lamp: N/A
Luminaire Lumens: 14722.2 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12674	12674	12674
5°	13099	13029	13000
10°	14252	14102	14032
15°	15819	15523	15369
20°	17584	17164	17016
25°	20073	19255	19408
30°	24243	22613	23388
35°	32186	31005	31787
40°	39687	39802	38785
45°	54064	52529	49891
50°	73939	74323	66616
55°	93393	108503	93273
60°	108321	150192	118566
65°	114073	181571	122852
70°	96766	176999	104012
75°	49085	124255	42636
80°	15579	43144	15691
85°	16874	22424	17216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	0.7
10°-20°	331.1	2.2
20°-30°	640.1	4.3
30°-40°	1239.4	8.4
40°-50°	2237.8	15.2
50°-60°	3891.2	26.4
60°-70°	4417.5	30.0
70°-80°	1712.7	11.6
80°-90°	154.5	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°	1069.1	7.3
0°-40°	2308.5	15.7
0°-60°	8437.5	57.3
0°-90°	14722.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14722.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	1006	1005	1001	1000	999	99
15°	1178	1170	1156	1148	1145	337
25°	1403	1374	1346	1347	1356	661
35°	2033	1994	1958	1993	2008	1270
45°	2948	2880	2864	2752	2720	2309
55°	4131	4329	4799	4271	4125	3637
65°	3717	4268	5917	4593	4004	3544
75°	980	1370	2480	1297	851	1186
85°	113	163	151	162	116	111
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°	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3
2.5°	983.4	986.4	985.6	984.2	984.2	984.2	983.4	981.1	980.4	981.8	983.4
5°	1006.2	1006.2	1006.2	1006.2	1004.7	1004.7	1003.2	1001.6	1002.4	1000.8	1000.2
7.5°	1041.2	1038.9	1039.0	1038.2	1038.2	1036.6	1034.4	1031.4	1032.1	1031.3	1030.6
10°	1082.3	1083.0	1080.8	1083.1	1079.2	1078.6	1075.4	1074.0	1073.2	1070.9	1070.9
12.5°	1131.8	1129.5	1129.6	1128.0	1126.5	1125.0	1120.4	1119.6	1116.6	1115.0	1112.8
15°	1178.2	1177.5	1174.4	1171.4	1170.6	1169.1	1163.8	1160.7	1159.9	1156.2	1153.1
17.5°	1224.6	1223.2	1219.4	1217.8	1214.8	1212.5	1207.9	1203.4	1201.0	1199.5	1195.8
20°	1274.1	1272.6	1268.8	1265.8	1262.0	1258.9	1252.0	1248.2	1246.0	1243.7	1240.6
22.5°	1335.8	1332.7	1326.6	1321.3	1312.9	1309.9	1300.8	1295.4	1291.6	1288.6	1287.0
25°	1402.8	1403.5	1395.1	1388.3	1378.4	1370.1	1358.6	1352.5	1348.7	1345.6	1344.9
27.5°	1486.4	1487.2	1479.6	1469.7	1454.5	1445.4	1430.2	1422.6	1420.3	1417.2	1416.4
30°	1618.9	1612.0	1599.2	1583.2	1569.4	1549.6	1527.6	1520.0	1512.4	1510.1	1510.0
32.5°	1862.4	1858.6	1848.0	1808.4	1790.2	1749.0	1710.2	1688.2	1663.0	1650.9	1643.2
35°	2033.0	2031.4	2023.0	2009.4	1998.0	1989.6	1966.8	1963.0	1958.4	1958.4	1964.5
37.5°	2158.6	2149.4	2147.9	2150.2	2147.2	2148.6	2167.0	2192.0	2213.4	2224.0	2222.5
40°	2344.3	2331.4	2338.9	2333.6	2326.8	2325.2	2331.4	2341.2	2351.1	2351.1	2348.8
42.5°	2587.1	2593.2	2596.2	2574.2	2559.6	2555.8	2570.3	2567.3	2577.1	2573.4	2563.4
45°	2947.8	2944.0	2938.7	2912.1	2889.2	2871.0	2874.8	2869.4	2870.2	2864.1	2856.5
47.5°	3311.6	3324.6	3302.6	3289.6	3263.7	3250.8	3261.5	3252.3	3269.8	3237.8	3222.6
50°	3664.8	3674.0	3666.4	3648.0	3648.0	3666.4	3679.3	3696.0	3720.4	3683.8	3629.0
52.5°	3954.0	3961.6	3973.0	3988.3	4025.6	4064.4	4119.2	4177.8	4224.2	4217.4	4155.0
55°	4130.6	4139.8	4158.8	4211.3	4278.2	4380.2	4504.4	4640.6	4747.2	4798.9	4753.2
57.5°	4190.0	4196.8	4248.6	4311.8	4416.0	4567.5	4775.3	5010.5	5215.2	5345.4	5324.8
60°	4176.3	4176.3	4228.8	4315.6	4461.7	4662.6	4956.5	5282.2	5595.8	5790.6	5761.7
62.5°	4032.4	4040.0	4115.5	4219.7	4396.2	4636.8	4986.9	5403.2	5778.5	6020.5	5996.9
65°	3717.4	3722.6	3804.2	3928.2	4125.3	4410.0	4792.8	5254.0	5684.1	5917.0	5872.8
67.5°	3208.1	3213.4	3279.7	3419.7	3628.3	3925.9	4339.2	4846.8	5267.8	5452.0	5319.5
70°	2552.0	2567.3	2609.8	2758.4	2916.6	3208.1	3588.7	4096.4	4493.7	4668.0	4521.8
72.5°	1739.2	1778.0	1829.8	1961.4	2112.8	2354.9	2657.9	3085.6	3404.6	3606.2	3476.0
75°	979.6	1034.4	1050.4	1150.0	1274.9	1466.0	1687.4	1994.2	2316.1	2479.8	2323.0
77.5°	423.2	468.1	487.9	534.3	631.7	711.7	846.4	1053.4	1302.3	1417.2	1229.2
80°	208.6	219.2	227.6	242.0	269.4	295.4	359.2	449.8	551.8	577.7	459.8
82.5°	161.4	169.0	183.5	194.8	201.7	208.5	214.6	226.8	236.7	242.0	228.4
85°	113.4	123.3	139.3	152.2	159.9	165.2	170.5	174.3	165.2	150.7	158.3
87.5°	29.7	38.8	54.0	58.6	66.2	70.0	68.5	70.8	63.9	46.4	51.8
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°	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3
2.5°	982.6	981.8	982.6	982.6	982.6	981.8	981.8	981.9
5°	1000.1	1000.2	1000.9	999.4	999.4	1000.1	999.4	998.6
7.5°	1029.8	1029.0	1029.0	1028.2	1029.1	1028.2	1028.2	1027.5
10°	1069.4	1067.8	1068.6	1066.4	1066.3	1065.6	1065.6	1065.6
12.5°	1112.0	1109.7	1110.5	1108.2	1104.4	1105.2	1105.9	1105.2
15°	1153.1	1150.8	1148.6	1147.1	1144.7	1145.5	1145.4	1144.7
17.5°	1194.9	1190.4	1189.6	1187.4	1186.6	1186.6	1186.6	1187.4
20°	1238.4	1235.3	1234.6	1232.2	1231.5	1233.8	1234.6	1233.0
22.5°	1284.8	1283.3	1284.8	1283.2	1285.6	1287.0	1287.8	1286.3
25°	1343.4	1341.8	1344.2	1349.5	1352.5	1354.0	1357.8	1356.3
27.5°	1418.7	1417.2	1422.5	1430.2	1434.8	1442.3	1446.1	1447.7
30°	1516.2	1523.0	1526.1	1541.3	1544.3	1556.6	1556.5	1561.8
32.5°	1657.8	1670.7	1693.5	1717.1	1749.8	1773.4	1773.4	1785.6
35°	1968.2	1973.6	1991.1	1995.0	2001.8	2009.4	2001.8	2007.8
37.5°	2206.5	2182.9	2166.1	2142.6	2128.1	2128.1	2129.6	2128.1
40°	2328.2	2319.1	2311.6	2291.8	2288.7	2288.0	2288.0	2291.0
42.5°	2546.0	2523.9	2511.7	2495.0	2489.6	2488.2	2487.4	2488.9
45°	2829.1	2793.4	2760.6	2743.8	2729.4	2715.7	2720.2	2720.3
47.5°	3158.6	3103.2	3049.8	3020.9	2995.8	2984.4	2976.8	2974.5
50°	3559.8	3482.2	3413.6	3359.6	3323.0	3322.3	3326.2	3301.8
52.5°	4051.5	3928.9	3843.6	3770.6	3736.4	3732.6	3720.4	3706.7
55°	4596.4	4451.0	4310.2	4231.9	4187.0	4162.6	4148.2	4125.3
57.5°	5158.2	4962.5	4760.0	4634.5	4555.4	4500.5	4471.6	4458.7
60°	5591.2	5324.0	5057.0	4855.2	4723.6	4642.1	4591.9	4571.3
62.5°	5761.8	5399.4	5057.0	4792.0	4601.8	4489.1	4421.4	4391.7
65°	5558.5	5129.2	4739.5	4447.2	4234.9	4109.3	4035.5	4003.5
67.5°	4990.7	4611.7	4187.8	3897.0	3678.6	3554.4	3474.6	3450.9
70°	4183.9	3796.5	3391.6	3132.0	2937.2	2836.0	2753.0	2743.1
72.5°	3144.2	2810.0	2463.0	2248.4	2091.6	1924.1	1881.5	1902.8
75°	2015.4	1702.6	1393.6	1200.3	1057.2	897.4	835.7	850.9
77.5°	954.4	739.0	533.6	412.5	346.3	296.1	283.2	275.5
80°	354.0	287.0	253.4	240.6	231.4	223.0	216.9	210.1
82.5°	229.1	223.8	217.0	214.6	207.8	197.1	177.4	169.0
85°	171.2	171.2	162.1	162.8	157.6	143.8	125.6	115.7
87.5°	50.2	44.9	41.1	38.0	37.2	33.4	24.4	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)