

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: P147342

Luminaire Tested: **TLM-E03-LED-E1-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147342
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-E03-LED-E1-5MQ-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9923.8 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

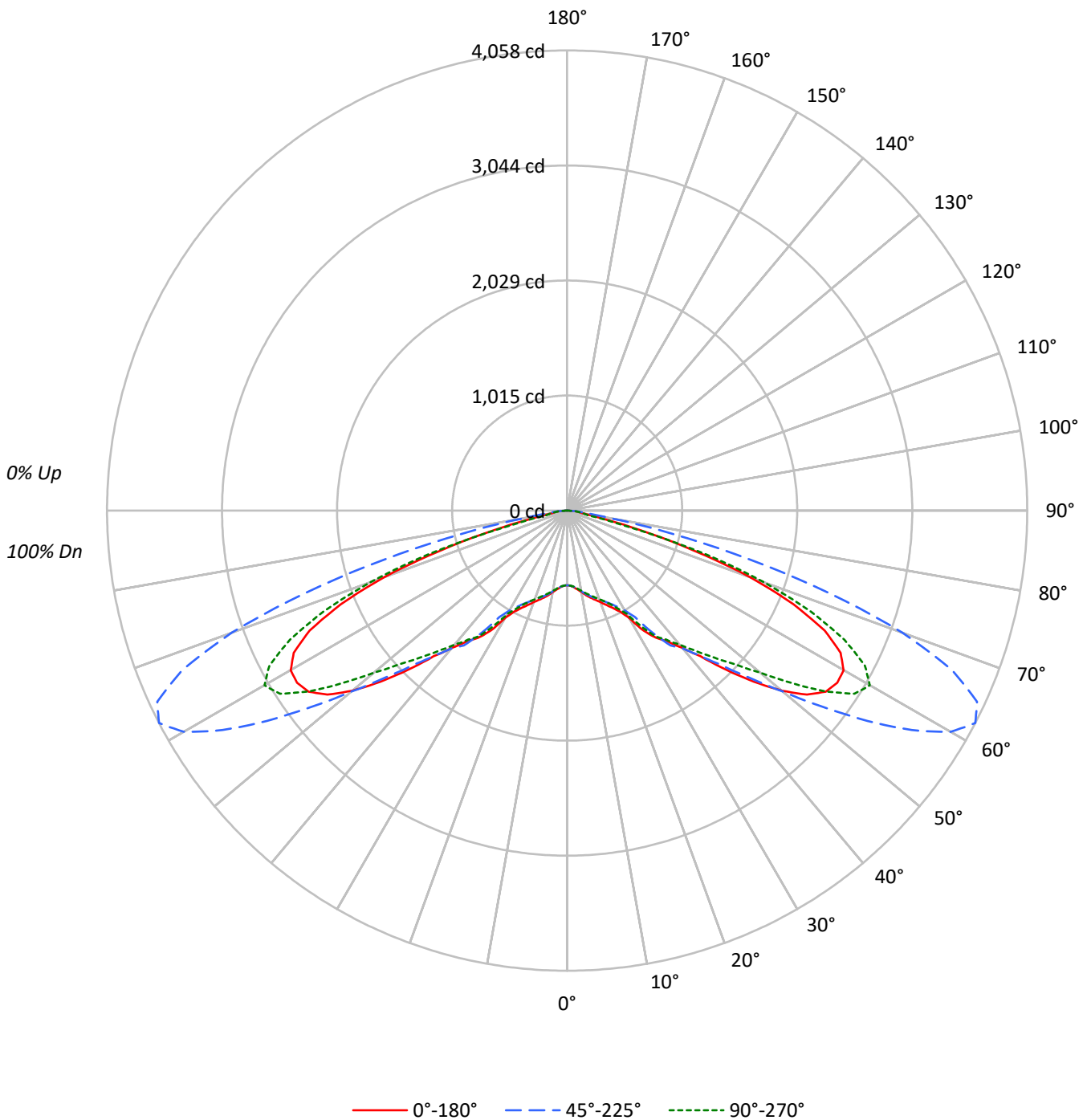
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14183	14183	14183
5°	14656	14580	14546
10°	15949	15781	15702
15°	17701	17368	17197
20°	19675	19205	19040
25°	22461	21547	21718
30°	27125	25303	26171
35°	36015	34693	35568
40°	44408	44537	43399
45°	60494	58777	55827
50°	82737	83166	74538
55°	104506	121411	104367
60°	121206	168059	132672
65°	127643	203171	137470
70°	108275	198057	116382
75°	54922	139031	47710
80°	17431	48275	17555
85°	18871	25096	19266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	0.7
10°-20°	223.2	2.2
20°-30°	431.5	4.3
30°-40°	835.4	8.4
40°-50°	1508.4	15.2
50°-60°	2622.9	26.4
60°-70°	2977.7	30.0
70°-80°	1154.4	11.6
80°-90°	104.1	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°	720.6	7.3
0°-40°	1556.1	15.7
0°-60°	5687.5	57.3
0°-90°	9923.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9923.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	678	677	675	674	673	66
15°	794	788	779	774	772	227
25°	946	926	907	908	914	445
35°	1370	1344	1320	1343	1353	856
45°	1987	1941	1931	1855	1834	1556
55°	2784	2918	3235	2879	2781	2451
65°	2506	2877	3988	3096	2699	2389
75°	660	924	1672	874	574	800
85°	76	110	102	110	78	75
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°	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	662.8	664.9	664.4	663.3	663.3	663.4	662.9	661.3	660.8	661.8	662.8
5°	678.2	678.2	678.2	678.2	677.2	677.2	676.2	675.2	675.6	674.7	674.2
7.5°	701.8	700.4	700.3	699.8	699.8	698.8	697.2	695.2	695.7	695.2	694.6
10°	729.6	730.1	728.6	730.1	727.5	727.0	724.9	723.9	723.4	721.9	721.8
12.5°	762.9	761.4	761.3	760.3	759.3	758.3	755.2	754.7	752.7	751.6	750.0
15°	794.2	793.6	791.6	789.6	789.0	788.0	784.4	782.4	781.9	779.3	777.2
17.5°	825.5	824.4	821.9	820.9	818.8	817.3	814.2	811.2	809.6	808.6	806.1
20°	858.8	857.8	855.2	853.2	850.6	848.6	844.0	841.4	839.8	838.3	836.3
22.5°	900.4	898.4	894.2	890.6	885.0	883.0	876.8	873.2	870.6	868.6	867.6
25°	945.6	946.0	940.4	935.8	929.2	923.5	915.8	911.7	909.2	907.1	906.6
27.5°	1002.0	1002.6	997.4	990.7	980.4	974.3	964.0	958.9	957.4	955.3	954.8
30°	1091.2	1086.6	1077.9	1067.2	1057.9	1044.6	1029.7	1024.6	1019.4	1017.9	1017.9
32.5°	1255.4	1252.8	1245.7	1219.0	1206.7	1178.9	1152.8	1137.9	1121.0	1112.8	1107.6
35°	1370.4	1369.4	1363.7	1354.4	1346.8	1341.1	1325.7	1323.2	1320.1	1320.1	1324.2
37.5°	1455.0	1448.9	1447.8	1449.4	1447.3	1448.4	1460.6	1477.6	1491.9	1499.1	1498.2
40°	1580.2	1571.5	1576.6	1573.0	1568.4	1567.4	1571.4	1578.1	1584.8	1584.8	1583.2
42.5°	1743.8	1748.0	1750.0	1735.2	1725.4	1722.8	1732.6	1730.6	1737.2	1734.6	1728.0
45°	1987.0	1984.4	1980.9	1963.0	1947.6	1935.2	1937.8	1934.2	1934.8	1930.6	1925.5
47.5°	2232.3	2241.0	2226.2	2217.4	2200.0	2191.2	2198.4	2192.2	2204.1	2182.5	2172.2
50°	2470.4	2476.5	2471.4	2459.0	2459.0	2471.4	2480.1	2491.4	2507.8	2483.2	2446.2
52.5°	2665.3	2670.4	2678.1	2688.4	2713.6	2739.7	2776.6	2816.1	2847.4	2842.8	2800.8
55°	2784.4	2790.5	2803.4	2838.7	2883.9	2952.6	3036.2	3128.1	3199.9	3234.8	3204.0
57.5°	2824.4	2829.0	2863.8	2906.4	2976.8	3078.9	3218.9	3377.4	3515.4	3603.2	3589.3
60°	2815.1	2815.1	2850.6	2909.0	3007.5	3143.0	3341.0	3560.6	3772.0	3903.3	3883.8
62.5°	2718.2	2723.3	2774.1	2844.4	2963.4	3125.5	3361.5	3642.2	3895.1	4058.2	4042.4
65°	2505.8	2509.4	2564.2	2647.8	2780.8	2972.6	3230.7	3541.6	3831.5	3988.5	3958.7
67.5°	2162.5	2166.2	2210.8	2305.1	2445.7	2646.3	2924.9	3267.2	3550.8	3675.0	3585.8
70°	1720.2	1730.5	1759.2	1859.3	1966.0	2162.5	2419.0	2761.2	3029.0	3146.6	3048.0
72.5°	1172.4	1198.5	1233.4	1322.1	1424.2	1587.4	1791.6	2079.9	2294.9	2430.8	2343.1
75°	660.3	697.2	708.0	775.2	859.4	988.2	1137.4	1344.2	1561.2	1671.5	1565.8
77.5°	285.2	315.5	328.9	360.2	425.8	479.7	570.5	710.1	877.8	955.4	828.6
80°	140.6	147.8	153.4	163.2	181.6	199.0	242.2	303.2	372.0	389.4	309.9
82.5°	108.8	113.9	123.6	131.3	136.0	140.6	144.6	152.9	159.5	163.2	154.0
85°	76.4	83.1	93.9	102.6	107.8	111.3	115.0	117.5	111.3	101.6	106.7
87.5°	20.0	26.2	36.4	39.5	44.6	47.2	46.2	47.7	43.1	31.2	34.9
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°	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	662.4	661.8	662.4	662.4	662.4	661.8	661.8	661.8
5°	674.2	674.2	674.7	673.6	673.6	674.2	673.6	673.1
7.5°	694.2	693.7	693.7	693.2	693.6	693.2	693.2	692.6
10°	720.8	719.8	720.3	718.8	718.8	718.2	718.3	718.3
12.5°	749.6	748.0	748.6	747.0	744.4	745.0	745.4	745.0
15°	777.3	775.7	774.2	773.2	771.6	772.2	772.2	771.6
17.5°	805.4	802.4	801.9	800.3	799.8	799.8	799.8	800.4
20°	834.8	832.7	832.2	830.6	830.2	831.7	832.2	831.1
22.5°	866.0	865.0	866.0	865.0	866.6	867.6	868.1	867.1
25°	905.6	904.5	906.0	909.6	911.7	912.8	915.3	914.3
27.5°	956.4	955.3	958.9	964.0	967.1	972.2	974.8	975.8
30°	1022.0	1026.6	1028.7	1039.0	1041.0	1049.2	1049.2	1052.8
32.5°	1117.4	1126.2	1141.6	1157.4	1179.6	1195.4	1195.4	1203.6
35°	1326.8	1330.4	1342.2	1344.7	1349.3	1354.4	1349.4	1353.4
37.5°	1487.4	1471.4	1460.1	1444.2	1434.5	1434.5	1435.6	1434.5
40°	1569.4	1563.2	1558.2	1544.8	1542.8	1542.2	1542.2	1544.3
42.5°	1716.2	1701.2	1693.0	1681.8	1678.2	1677.2	1676.6	1677.7
45°	1907.0	1882.9	1860.8	1849.6	1839.8	1830.6	1833.6	1833.7
47.5°	2129.2	2091.7	2055.8	2036.3	2019.4	2011.7	2006.6	2005.0
50°	2399.6	2347.2	2301.0	2264.6	2240.0	2239.4	2242.0	2225.6
52.5°	2731.0	2648.4	2591.0	2541.6	2518.6	2516.0	2507.8	2498.6
55°	3098.4	3000.3	2905.4	2852.6	2822.3	2805.9	2796.1	2780.7
57.5°	3477.0	3345.1	3208.6	3124.0	3070.6	3033.6	3014.2	3005.5
60°	3768.9	3588.8	3408.7	3272.8	3184.0	3129.1	3095.2	3081.4
62.5°	3883.8	3639.6	3408.7	3230.2	3102.0	3026.0	2980.3	2960.3
65°	3746.8	3457.4	3194.8	2997.8	2854.6	2770.0	2720.2	2698.7
67.5°	3364.1	3108.6	2822.9	2626.8	2479.6	2396.0	2342.1	2326.2
70°	2820.2	2559.2	2286.2	2111.2	1979.8	1911.6	1855.7	1849.0
72.5°	2119.4	1894.2	1660.2	1515.6	1409.9	1297.0	1268.2	1282.6
75°	1358.6	1147.7	939.4	809.0	712.6	604.9	563.3	573.6
77.5°	643.4	498.2	359.6	278.0	233.4	199.6	190.9	185.7
80°	238.6	193.4	170.9	162.1	156.0	150.3	146.2	141.6
82.5°	154.4	150.9	146.2	144.7	140.0	132.9	119.6	113.9
85°	115.4	115.4	109.2	109.8	106.2	96.9	84.6	78.0
87.5°	33.8	30.2	27.7	25.6	25.2	22.6	16.4	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)