

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: P147859

Luminaire Tested: **TLM-E03-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147859
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-E03-LED-E1-5WQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

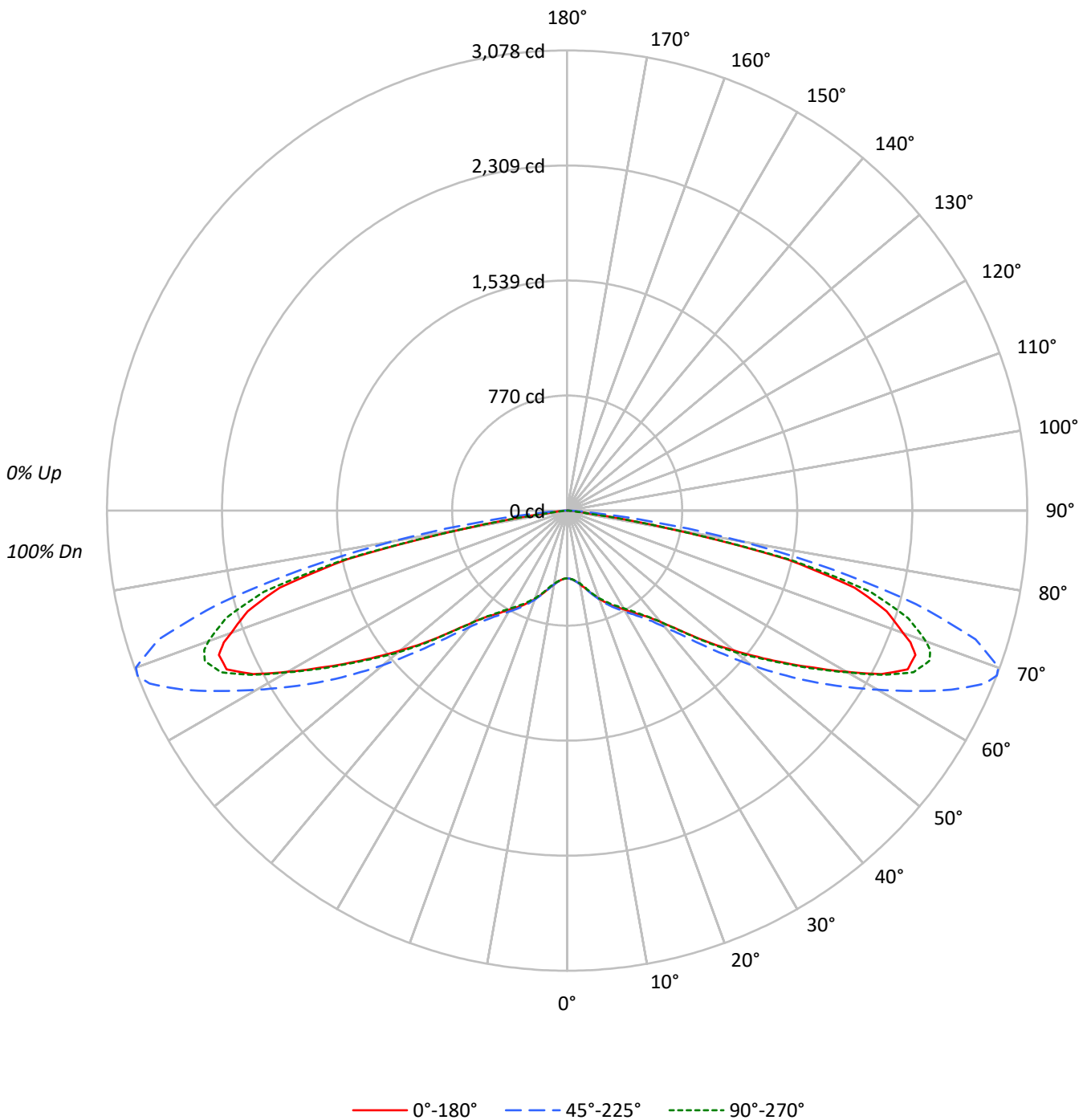
Lumens per Lamp: N/A
Luminaire Lumens: 8723.8 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

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	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°	10961	10941	10840
15°	12439	12499	12316
20°	14396	14522	14270
25°	16575	16836	16338
30°	18982	19412	18753
35°	22323	22922	22131
40°	27285	28541	27285
45°	36038	38373	36178
50°	48730	53777	49403
55°	66605	74833	66984
60°	92806	103187	93160
65°	127990	144464	130226
70°	150390	193223	160625
75°	165464	200864	174655
80°	83682	146413	86174
85°	10819	39694	8349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	0.5
10°-20°	160.6	1.8
20°-30°	325.3	3.7
30°-40°	545.3	6.3
40°-50°	961.9	11.0
50°-60°	1696.3	19.4
60°-70°	2589.7	29.7
70°-80°	2164.0	24.8
80°-90°	235.1	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°	531.4	6.1
0°-40°	1076.7	12.3
0°-60°	3734.9	42.8
0°-90°	8723.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8723.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	466	467	466	464	464	46
15°	558	561	561	556	553	161
25°	698	701	709	696	688	324
35°	849	855	872	854	842	540
45°	1184	1211	1260	1222	1188	930
55°	1775	1859	1994	1874	1785	1608
65°	2513	2648	2836	2669	2556	2405
75°	1989	2101	2415	2235	2100	1916
85°	44	73	161	63	34	144
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°	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2.5°	456.7	457.6	456.7	456.7	456.7	456.7	456.7	455.8	455.8	455.8	456.7
5°	465.8	466.7	465.8	466.7	466.7	466.7	466.7	465.8	465.8	465.8	465.8
7.5°	480.4	480.4	480.4	481.3	480.4	480.4	481.3	480.4	480.4	480.4	480.4
10°	501.4	500.5	500.5	500.5	500.5	500.5	501.4	501.4	501.4	500.5	500.5
12.5°	527.0	526.1	527.0	527.0	527.9	527.9	527.9	527.9	527.9	527.9	527.0
15°	558.1	558.1	558.1	559.0	560.8	560.8	559.9	560.8	560.8	560.8	560.8
17.5°	592.8	594.6	592.8	593.7	594.6	593.7	595.5	596.4	597.3	596.4	593.7
20°	628.4	629.3	629.3	629.3	629.3	631.1	632.0	632.0	634.8	633.9	633.0
22.5°	662.2	664.0	664.0	664.9	664.9	667.7	667.7	667.7	669.5	671.3	669.5
25°	697.8	696.9	696.9	698.7	699.6	703.3	703.3	705.1	707.8	708.8	706.9
27.5°	729.8	728.9	728.9	731.6	732.5	737.1	737.1	740.7	742.6	743.5	741.6
30°	763.6	763.6	762.6	765.4	768.1	771.8	773.6	777.3	780.0	780.9	779.1
32.5°	803.7	801.9	802.8	804.7	806.5	810.1	812.9	817.4	821.1	822.0	820.2
35°	849.4	846.7	847.6	849.4	852.2	857.6	862.2	864.9	870.4	872.2	868.6
37.5°	899.7	900.6	899.7	904.2	908.8	915.2	920.7	924.3	929.8	932.5	929.8
40°	970.9	968.2	970.9	975.5	982.8	991.0	1001.9	1004.7	1010.2	1015.6	1009.3
42.5°	1063.1	1061.3	1067.7	1071.4	1079.6	1088.7	1102.4	1109.7	1117.9	1121.6	1116.1
45°	1183.7	1183.7	1191.0	1191.9	1204.7	1216.6	1235.8	1244.9	1260.4	1260.4	1260.4
47.5°	1317.1	1322.5	1327.1	1336.2	1345.4	1367.3	1386.5	1406.6	1421.2	1423.0	1420.3
50°	1455.0	1460.4	1474.1	1486.9	1507.0	1534.4	1555.4	1581.9	1594.7	1605.7	1602.0
52.5°	1607.5	1608.4	1624.9	1641.3	1670.5	1700.7	1734.5	1761.9	1784.7	1794.7	1786.5
55°	1774.6	1776.5	1791.1	1808.4	1841.3	1876.0	1918.0	1946.3	1975.6	1993.8	1980.1
57.5°	1955.5	1956.4	1971.0	1992.0	2031.3	2066.0	2106.2	2146.4	2173.8	2190.2	2181.1
60°	2155.5	2160.1	2171.0	2197.5	2235.0	2271.5	2311.7	2347.3	2379.3	2396.6	2387.5
62.5°	2369.2	2373.8	2389.3	2410.3	2443.2	2483.4	2521.8	2567.4	2593.9	2613.1	2599.4
65°	2512.6	2520.8	2545.5	2573.8	2622.2	2674.3	2719.0	2781.2	2813.1	2836.0	2823.2
67.5°	2521.8	2526.3	2556.5	2599.4	2664.2	2742.8	2834.1	2930.9	2994.0	3024.1	3002.2
69°	2459.7	2466.0	2495.3	2543.7	2615.8	2707.2	2815.9	2936.4	3033.2	3078.0	3057.0
70°	2389.3	2403.0	2435.0	2488.0	2558.3	2654.2	2766.5	2895.3	3008.6	3069.8	3054.2
72.5°	2241.4	2245.0	2266.0	2308.0	2361.9	2441.4	2547.3	2668.8	2776.6	2864.3	2877.1
75°	1989.3	2001.2	2016.7	2045.0	2072.4	2129.9	2201.2	2284.3	2347.3	2414.9	2417.6
77.5°	1503.4	1539.0	1550.9	1557.3	1569.1	1614.8	1676.9	1749.1	1801.1	1812.1	1810.3
80°	675.0	722.5	733.4	785.5	817.4	893.3	988.2	1098.8	1172.7	1181.0	1160.9
82.5°	132.4	141.6	165.3	206.4	281.3	326.1	388.2	465.8	537.0	578.2	553.5
85°	43.8	46.6	53.9	59.4	68.5	77.6	94.1	116.9	145.2	160.7	143.4
87.5°	17.4	17.4	20.1	21.9	23.7	23.7	23.7	21.9	21.0	17.4	15.5
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°	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2.5°	455.8	455.8	455.8	455.8	455.8	455.8	455.8	455.8
5°	465.8	464.9	464.9	464.0	464.0	464.0	464.0	464.0
7.5°	479.5	478.6	477.7	478.6	477.7	477.7	477.7	477.7
10°	500.5	498.7	497.8	496.9	496.9	496.9	495.9	495.9
12.5°	525.2	525.2	524.3	523.3	521.5	522.4	521.5	519.7
15°	559.0	557.1	556.2	555.3	553.5	553.5	553.5	552.6
17.5°	592.8	590.9	590.9	588.2	587.3	587.3	587.3	588.2
20°	630.2	627.5	625.6	623.8	622.0	622.9	621.1	622.9
22.5°	667.7	664.0	662.2	659.4	656.7	656.7	655.8	654.0
25°	704.2	699.6	697.8	695.1	691.4	691.4	689.6	687.8
27.5°	738.9	734.3	732.5	727.0	723.4	722.5	720.6	719.7
30°	777.3	771.8	769.0	763.6	758.1	757.2	754.4	754.4
32.5°	817.4	812.0	810.1	801.9	797.4	797.4	795.5	793.7
35°	867.7	859.5	857.6	849.4	843.0	843.0	841.2	842.1
37.5°	927.1	920.7	914.3	907.9	900.6	899.7	897.8	896.0
40°	1006.5	999.2	991.9	982.8	976.4	974.5	971.8	970.9
42.5°	1112.5	1105.2	1090.5	1083.2	1076.8	1071.4	1070.4	1069.5
45°	1247.6	1238.5	1228.5	1214.8	1206.5	1194.7	1192.8	1188.3
47.5°	1410.2	1392.9	1375.5	1363.6	1350.8	1337.1	1334.4	1327.1
50°	1582.8	1569.1	1539.9	1520.7	1500.6	1486.9	1477.8	1475.1
52.5°	1768.2	1742.7	1713.4	1687.9	1658.6	1640.4	1623.9	1619.4
55°	1961.9	1925.3	1888.8	1858.7	1829.4	1807.5	1792.0	1784.7
57.5°	2155.5	2115.3	2075.1	2042.3	2017.6	1989.3	1973.8	1970.1
60°	2357.4	2319.0	2277.9	2245.0	2214.9	2190.2	2181.1	2163.7
62.5°	2571.1	2530.9	2492.5	2460.6	2422.2	2404.9	2389.3	2379.3
65°	2781.2	2734.6	2686.2	2652.4	2614.0	2589.3	2570.2	2556.5
67.5°	2943.7	2873.4	2808.6	2751.9	2699.9	2661.5	2636.8	2624.1
69°	2989.4	2901.7	2818.6	2744.6	2683.4	2640.5	2613.1	2600.3
70°	2983.9	2887.1	2795.8	2714.5	2647.8	2602.1	2575.6	2551.9
72.5°	2814.9	2726.4	2625.0	2536.4	2476.1	2432.3	2405.8	2393.0
75°	2402.1	2342.7	2269.7	2201.2	2157.3	2131.8	2098.9	2099.8
77.5°	1749.1	1750.9	1701.6	1631.2	1581.9	1572.8	1558.2	1543.6
80°	1085.1	998.3	941.7	865.9	810.1	761.7	740.7	695.1
82.5°	500.5	390.9	303.2	229.3	176.3	137.9	120.6	98.6
85°	111.4	84.9	70.3	56.6	48.4	44.8	36.5	33.8
87.5°	15.5	13.7	12.8	11.9	10.0	7.3	5.5	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)