

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: P147858

Luminaire Tested: **TLM-E03-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147858
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-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

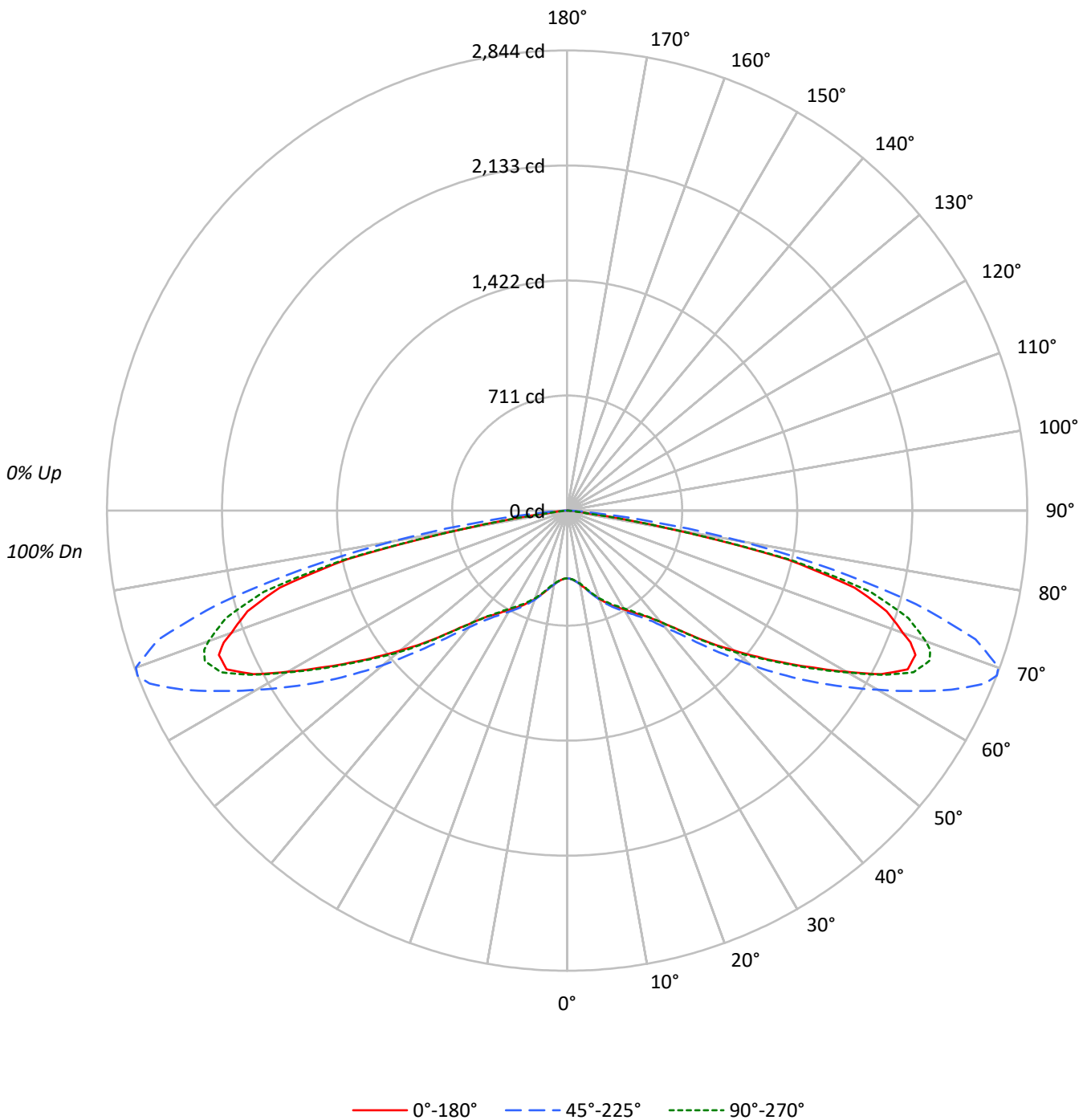
Lumens per Lamp: N/A
Luminaire Lumens: 8061.3 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P147858
CATALOG NUMBER: TLM-E03-LED-E1-5WQ-8030

Luminous Intensity Polar Plot





TEST NUMBER: P147858

CATALOG NUMBER: TLM-E03-LED-E1-5WQ-8030

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°	9012	9012	9012
5°	9301	9301	9264
10°	10130	10110	10018
15°	11494	11549	11380
20°	13304	13418	13187
25°	15316	15556	15095
30°	17540	17938	17329
35°	20628	21182	20452
40°	25214	26374	25214
45°	33301	35459	33429
50°	45029	49691	45649
55°	61550	69150	61899
60°	85758	95351	86085
65°	118271	133491	120334
70°	138972	178551	148426
75°	152896	185610	161389
80°	77322	135293	79628
85°	10004	36680	7707



TEST NUMBER: P147858

CATALOG NUMBER: TLM-E03-LED-E1-5WQ-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.5
10°-20°	148.4	1.8
20°-30°	300.6	3.7
30°-40°	503.9	6.3
40°-50°	888.9	11.0
50°-60°	1567.5	19.4
60°-70°	2393.1	29.7
70°-80°	1999.7	24.8
80°-90°	217.3	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°	491.0	6.1
0°-40°	994.9	12.3
0°-60°	3451.3	42.8
0°-90°	8061.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8061.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	430	431	430	429	429	42
15°	516	518	518	514	511	149
25°	645	648	655	644	636	300
35°	785	790	806	789	778	499
45°	1094	1119	1165	1129	1098	859
55°	1640	1718	1842	1731	1649	1486
65°	2322	2447	2621	2467	2362	2222
75°	1838	1942	2232	2066	1940	1770
85°	40	68	148	59	31	133
90°	0	0	0	0	0	



TEST NUMBER: P147858

CATALOG NUMBER: TLM-E03-LED-E1-5WQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6
2.5°	422.0	422.8	422.0	422.0	422.0	422.0	422.0	421.2	421.2	421.2	422.0
5°	430.4	431.3	430.4	431.3	431.3	431.3	431.3	430.4	430.4	430.4	430.4
7.5°	443.9	443.9	443.9	444.8	443.9	443.9	444.8	443.9	443.9	443.9	443.9
10°	463.4	462.5	462.5	462.5	462.5	462.5	463.4	463.4	463.4	462.5	462.5
12.5°	487.0	486.1	487.0	487.0	487.8	487.8	487.8	487.8	487.8	487.8	487.0
15°	515.7	515.7	515.7	516.5	518.2	518.2	517.4	518.2	518.2	518.2	518.2
17.5°	547.8	549.4	547.8	548.6	549.4	548.6	550.3	551.1	552.0	551.1	548.6
20°	580.7	581.5	581.5	581.5	581.5	583.2	584.0	584.0	586.6	585.7	584.9
22.5°	611.9	613.6	613.6	614.4	614.4	617.0	617.0	617.0	618.6	620.3	618.6
25°	644.8	644.0	644.0	645.7	646.5	649.9	649.9	651.6	654.1	654.9	653.2
27.5°	674.3	673.5	673.5	676.0	676.9	681.1	681.1	684.5	686.2	687.0	685.3
30°	705.6	705.6	704.7	707.3	709.8	713.2	714.9	718.2	720.8	721.6	719.9
32.5°	742.7	741.0	741.9	743.6	745.2	748.6	751.2	755.4	758.7	759.6	757.9
35°	784.9	782.4	783.2	784.9	787.4	792.5	796.7	799.3	804.3	806.0	802.6
37.5°	831.3	832.2	831.3	835.6	839.8	845.7	850.7	854.1	859.2	861.7	859.2
40°	897.2	894.6	897.2	901.4	908.1	915.7	925.9	928.4	933.5	938.5	932.6
42.5°	982.4	980.7	986.6	990.0	997.6	1006.0	1018.7	1025.4	1033.0	1036.4	1031.4
45°	1093.8	1093.8	1100.6	1101.4	1113.2	1124.2	1141.9	1150.4	1164.7	1164.7	1164.7
47.5°	1217.0	1222.1	1226.3	1234.8	1243.2	1263.5	1281.2	1299.7	1313.2	1314.9	1312.4
50°	1344.5	1349.5	1362.2	1374.0	1392.6	1417.9	1437.3	1461.8	1473.6	1483.7	1480.4
52.5°	1485.4	1486.3	1501.5	1516.7	1543.7	1571.5	1602.7	1628.1	1649.2	1658.4	1650.8
55°	1639.9	1641.6	1655.1	1671.1	1701.5	1733.6	1772.4	1798.5	1825.6	1842.4	1829.8
57.5°	1807.0	1807.8	1821.3	1840.7	1877.0	1909.1	1946.2	1983.4	2008.7	2023.9	2015.5
60°	1991.8	1996.0	2006.2	2030.6	2065.2	2099.0	2136.1	2169.1	2198.6	2214.6	2206.2
62.5°	2189.3	2193.5	2207.9	2227.3	2257.7	2294.8	2330.3	2372.5	2396.9	2414.7	2402.0
65°	2321.8	2329.4	2352.2	2378.4	2423.1	2471.2	2512.6	2570.0	2599.5	2620.6	2608.8
67.5°	2330.3	2334.5	2362.3	2402.0	2461.9	2534.5	2618.9	2708.4	2766.6	2794.5	2774.2
69°	2272.9	2278.8	2305.8	2350.5	2417.2	2501.6	2602.0	2713.4	2802.9	2844.2	2824.8
70°	2207.9	2220.5	2250.1	2299.0	2364.0	2452.6	2556.4	2675.5	2780.1	2836.7	2822.3
72.5°	2071.2	2074.5	2093.9	2132.8	2182.6	2256.0	2353.9	2466.1	2565.7	2646.8	2658.6
75°	1838.2	1849.2	1863.5	1889.7	1915.0	1968.2	2034.0	2110.8	2169.1	2231.5	2234.0
77.5°	1389.2	1422.1	1433.1	1439.0	1450.0	1492.2	1549.6	1616.2	1664.4	1674.5	1672.8
80°	623.7	667.6	677.7	725.8	755.4	825.4	913.2	1015.3	1083.7	1091.3	1072.7
82.5°	122.4	130.8	152.8	190.7	259.9	301.3	358.7	430.4	496.3	534.2	511.5
85°	40.5	43.0	49.8	54.9	63.3	71.7	86.9	108.0	134.2	148.5	132.5
87.5°	16.0	16.0	18.6	20.3	21.9	21.9	21.9	20.3	19.4	16.0	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P147858

CATALOG NUMBER: TLM-E03-LED-E1-5WQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6
2.5°	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2
5°	430.4	429.6	429.6	428.7	428.7	428.7	428.7	428.7
7.5°	443.1	442.3	441.4	442.3	441.4	441.4	441.4	441.4
10°	462.5	460.8	460.0	459.1	459.1	459.1	458.3	458.3
12.5°	485.3	485.3	484.5	483.6	481.9	482.8	481.9	480.2
15°	516.5	514.8	514.0	513.1	511.5	511.5	511.5	510.6
17.5°	547.8	546.1	546.1	543.5	542.7	542.7	542.7	543.5
20°	582.4	579.8	578.1	576.4	574.8	575.6	573.9	575.6
22.5°	617.0	613.6	611.9	609.4	606.8	606.8	606.0	604.3
25°	650.7	646.5	644.8	642.3	638.9	638.9	637.2	635.5
27.5°	682.8	678.6	676.9	671.8	668.4	667.6	665.9	665.1
30°	718.2	713.2	710.6	705.6	700.5	699.7	697.1	697.1
32.5°	755.4	750.3	748.6	741.0	736.8	736.8	735.1	733.4
35°	801.8	794.2	792.5	784.9	779.0	779.0	777.3	778.2
37.5°	856.7	850.7	844.8	838.9	832.2	831.3	829.6	828.0
40°	930.1	923.3	916.6	908.1	902.2	900.5	898.0	897.2
42.5°	1028.0	1021.2	1007.7	1001.0	995.1	990.0	989.2	988.3
45°	1152.9	1144.5	1135.2	1122.5	1114.9	1103.9	1102.3	1098.0
47.5°	1303.1	1287.1	1271.1	1260.1	1248.3	1235.6	1233.1	1226.3
50°	1462.6	1450.0	1423.0	1405.2	1386.7	1374.0	1365.6	1363.0
52.5°	1634.0	1610.3	1583.3	1559.7	1532.7	1515.8	1500.6	1496.4
55°	1812.9	1779.1	1745.4	1717.5	1690.5	1670.3	1655.9	1649.2
57.5°	1991.8	1954.7	1917.5	1887.2	1864.4	1838.2	1823.9	1820.5
60°	2178.3	2142.9	2104.9	2074.5	2046.7	2023.9	2015.5	1999.4
62.5°	2375.8	2338.7	2303.3	2273.7	2238.3	2222.2	2207.9	2198.6
65°	2570.0	2526.9	2482.2	2450.9	2415.5	2392.7	2375.0	2362.3
67.5°	2720.2	2655.2	2595.3	2542.9	2494.8	2459.4	2436.6	2424.8
69°	2762.4	2681.4	2604.6	2536.2	2479.6	2440.0	2414.7	2402.8
70°	2757.3	2667.9	2583.5	2508.3	2446.7	2404.5	2380.1	2358.1
72.5°	2601.2	2519.3	2425.6	2343.8	2288.1	2247.5	2223.1	2211.3
75°	2219.7	2164.8	2097.3	2034.0	1993.5	1969.9	1939.5	1940.3
77.5°	1616.2	1617.9	1572.4	1507.4	1461.8	1453.4	1439.8	1426.3
80°	1002.7	922.5	870.2	800.1	748.6	703.9	684.5	642.3
82.5°	462.5	361.2	280.2	211.8	162.9	127.4	111.4	91.2
85°	103.0	78.5	65.0	52.3	44.7	41.4	33.8	31.2
87.5°	14.3	12.7	11.8	11.0	9.3	6.8	5.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)