

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: P147340

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147340
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9671.3 lumens
Efficiency: N/A
Efficacy: 128.6 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

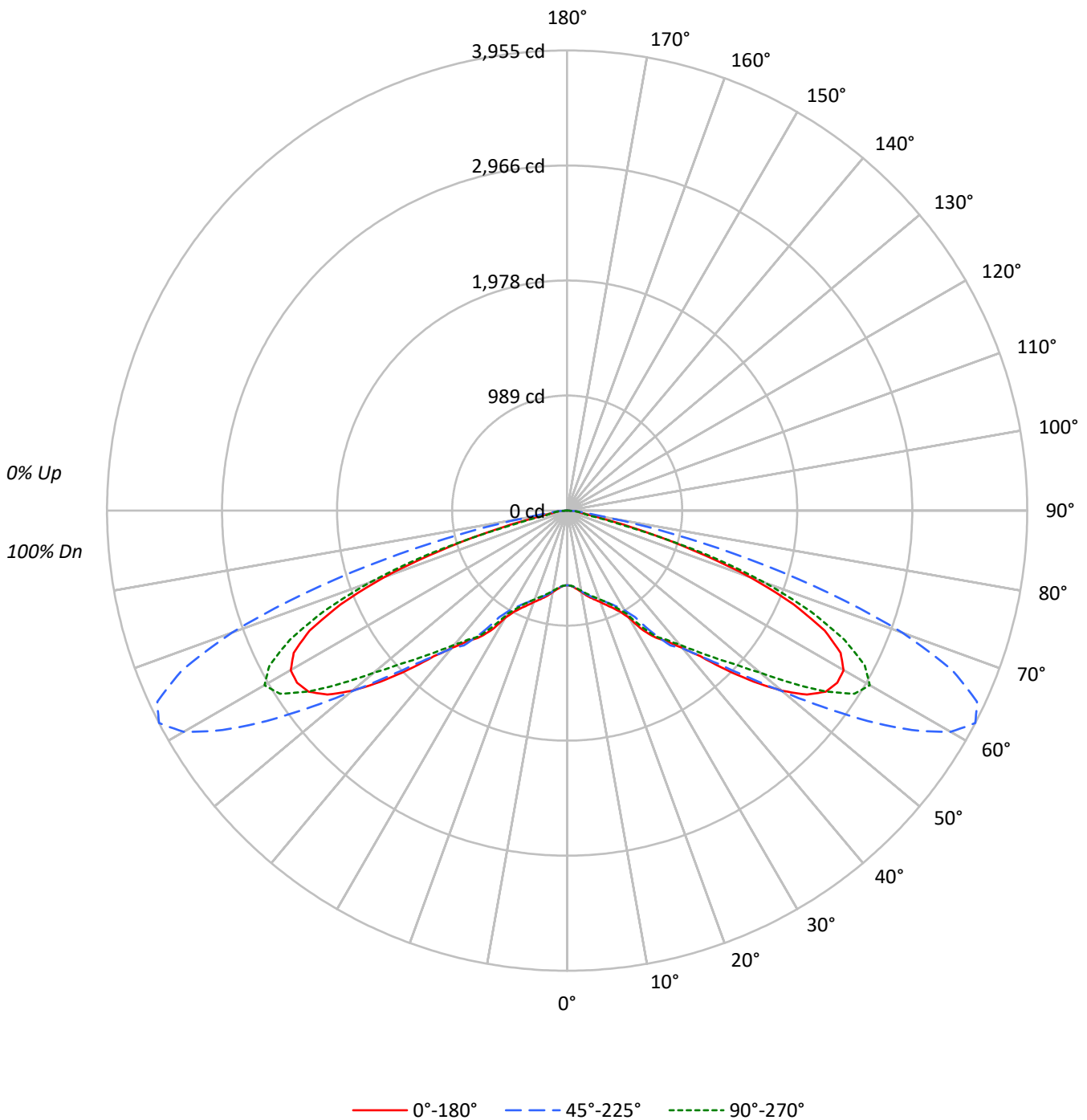
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13821	13821	13821
5°	14284	14209	14176
10°	15542	15378	15302
15°	17250	16927	16760
20°	19175	18717	18557
25°	21889	20998	21164
30°	26437	24659	25505
35°	35098	33810	34664
40°	43278	43404	42294
45°	58957	57282	54405
50°	80630	81049	72643
55°	101845	118322	101713
60°	118123	163784	129296
65°	124393	198001	133970
70°	105524	193015	113424
75°	53524	135496	46496
80°	16984	47048	17108
85°	18402	24453	18772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	0.7
10°-20°	217.5	2.2
20°-30°	420.5	4.3
30°-40°	814.2	8.4
40°-50°	1470.1	15.2
50°-60°	2556.2	26.4
60°-70°	2902.0	30.0
70°-80°	1125.1	11.6
80°-90°	101.5	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°	702.3	7.3
0°-40°	1516.5	15.7
0°-60°	5542.8	57.3
0°-90°	9671.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9671.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	661	660	658	657	656	65
15°	774	768	760	754	752	221
25°	922	903	884	885	891	434
35°	1336	1310	1286	1309	1319	834
45°	1936	1892	1882	1808	1787	1517
55°	2714	2844	3152	2806	2710	2389
65°	2442	2804	3887	3018	2630	2328
75°	644	900	1629	852	559	779
85°	74	107	99	107	76	73
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°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	646.0	648.0	647.5	646.5	646.5	646.5	646.0	644.5	644.0	645.0	646.0
5°	661.0	661.0	661.0	661.0	660.0	660.0	659.0	658.0	658.5	657.5	657.0
7.5°	684.0	682.5	682.5	682.0	682.0	681.0	679.5	677.5	678.0	677.5	677.0
10°	711.0	711.5	710.0	711.5	709.0	708.5	706.5	705.5	705.0	703.5	703.5
12.5°	743.5	742.0	742.0	741.0	740.0	739.0	736.0	735.5	733.5	732.5	731.0
15°	774.0	773.5	771.5	769.5	769.0	768.0	764.5	762.5	762.0	759.5	757.5
17.5°	804.5	803.5	801.0	800.0	798.0	796.5	793.5	790.5	789.0	788.0	785.5
20°	837.0	836.0	833.5	831.5	829.0	827.0	822.5	820.0	818.5	817.0	815.0
22.5°	877.5	875.5	871.5	868.0	862.5	860.5	854.5	851.0	848.5	846.5	845.5
25°	921.5	922.0	916.5	912.0	905.5	900.0	892.5	888.5	886.0	884.0	883.5
27.5°	976.5	977.0	972.0	965.5	955.5	949.5	939.5	934.5	933.0	931.0	930.5
30°	1063.5	1059.0	1050.5	1040.0	1031.0	1018.0	1003.5	998.5	993.5	992.0	992.0
32.5°	1223.5	1221.0	1214.0	1188.0	1176.0	1149.0	1123.5	1109.0	1092.5	1084.5	1079.5
35°	1335.5	1334.5	1329.0	1320.0	1312.5	1307.0	1292.0	1289.5	1286.5	1286.5	1290.5
37.5°	1418.0	1412.0	1411.0	1412.5	1410.5	1411.5	1423.5	1440.0	1454.0	1461.0	1460.0
40°	1540.0	1531.5	1536.5	1533.0	1528.5	1527.5	1531.5	1538.0	1544.5	1544.5	1543.0
42.5°	1699.5	1703.5	1705.5	1691.0	1681.5	1679.0	1688.5	1686.5	1693.0	1690.5	1684.0
45°	1936.5	1934.0	1930.5	1913.0	1898.0	1886.0	1888.5	1885.0	1885.5	1881.5	1876.5
47.5°	2175.5	2184.0	2169.5	2161.0	2144.0	2135.5	2142.5	2136.5	2148.0	2127.0	2117.0
50°	2407.5	2413.5	2408.5	2396.5	2396.5	2408.5	2417.0	2428.0	2444.0	2420.0	2384.0
52.5°	2597.5	2602.5	2610.0	2620.0	2644.5	2670.0	2706.0	2744.5	2775.0	2770.5	2729.5
55°	2713.5	2719.5	2732.0	2766.5	2810.5	2877.5	2959.0	3048.5	3118.5	3152.5	3122.5
57.5°	2752.5	2757.0	2791.0	2832.5	2901.0	3000.5	3137.0	3291.5	3426.0	3511.5	3498.0
60°	2743.5	2743.5	2778.0	2835.0	2931.0	3063.0	3256.0	3470.0	3676.0	3804.0	3785.0
62.5°	2649.0	2654.0	2703.5	2772.0	2888.0	3046.0	3276.0	3549.5	3796.0	3955.0	3939.5
65°	2442.0	2445.5	2499.0	2580.5	2710.0	2897.0	3148.5	3451.5	3734.0	3887.0	3858.0
67.5°	2107.5	2111.0	2154.5	2246.5	2383.5	2579.0	2850.5	3184.0	3460.5	3581.5	3494.5
70°	1676.5	1686.5	1714.5	1812.0	1916.0	2107.5	2357.5	2691.0	2952.0	3066.5	2970.5
72.5°	1142.5	1168.0	1202.0	1288.5	1388.0	1547.0	1746.0	2027.0	2236.5	2369.0	2283.5
75°	643.5	679.5	690.0	755.5	837.5	963.0	1108.5	1310.0	1521.5	1629.0	1526.0
77.5°	278.0	307.5	320.5	351.0	415.0	467.5	556.0	692.0	855.5	931.0	807.5
80°	137.0	144.0	149.5	159.0	177.0	194.0	236.0	295.5	362.5	379.5	302.0
82.5°	106.0	111.0	120.5	128.0	132.5	137.0	141.0	149.0	155.5	159.0	150.0
85°	74.5	81.0	91.5	100.0	105.0	108.5	112.0	114.5	108.5	99.0	104.0
87.5°	19.5	25.5	35.5	38.5	43.5	46.0	45.0	46.5	42.0	30.5	34.0
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°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	645.5	645.0	645.5	645.5	645.5	645.0	645.0	645.0
5°	657.0	657.0	657.5	656.5	656.5	657.0	656.5	656.0
7.5°	676.5	676.0	676.0	675.5	676.0	675.5	675.5	675.0
10°	702.5	701.5	702.0	700.5	700.5	700.0	700.0	700.0
12.5°	730.5	729.0	729.5	728.0	725.5	726.0	726.5	726.0
15°	757.5	756.0	754.5	753.5	752.0	752.5	752.5	752.0
17.5°	785.0	782.0	781.5	780.0	779.5	779.5	779.5	780.0
20°	813.5	811.5	811.0	809.5	809.0	810.5	811.0	810.0
22.5°	844.0	843.0	844.0	843.0	844.5	845.5	846.0	845.0
25°	882.5	881.5	883.0	886.5	888.5	889.5	892.0	891.0
27.5°	932.0	931.0	934.5	939.5	942.5	947.5	950.0	951.0
30°	996.0	1000.5	1002.5	1012.5	1014.5	1022.5	1022.5	1026.0
32.5°	1089.0	1097.5	1112.5	1128.0	1149.5	1165.0	1165.0	1173.0
35°	1293.0	1296.5	1308.0	1310.5	1315.0	1320.0	1315.0	1319.0
37.5°	1449.5	1434.0	1423.0	1407.5	1398.0	1398.0	1399.0	1398.0
40°	1529.5	1523.5	1518.5	1505.5	1503.5	1503.0	1503.0	1505.0
42.5°	1672.5	1658.0	1650.0	1639.0	1635.5	1634.5	1634.0	1635.0
45°	1858.5	1835.0	1813.5	1802.5	1793.0	1784.0	1787.0	1787.0
47.5°	2075.0	2038.5	2003.5	1984.5	1968.0	1960.5	1955.5	1954.0
50°	2338.5	2287.5	2242.5	2207.0	2183.0	2182.5	2185.0	2169.0
52.5°	2661.5	2581.0	2525.0	2477.0	2454.5	2452.0	2444.0	2435.0
55°	3019.5	2924.0	2831.5	2780.0	2750.5	2734.5	2725.0	2710.0
57.5°	3388.5	3260.0	3127.0	3044.5	2992.5	2956.5	2937.5	2929.0
60°	3673.0	3497.5	3322.0	3189.5	3103.0	3049.5	3016.5	3003.0
62.5°	3785.0	3547.0	3322.0	3148.0	3023.0	2949.0	2904.5	2885.0
65°	3651.5	3369.5	3113.5	2921.5	2782.0	2699.5	2651.0	2630.0
67.5°	3278.5	3029.5	2751.0	2560.0	2416.5	2335.0	2282.5	2267.0
70°	2748.5	2494.0	2228.0	2057.5	1929.5	1863.0	1808.5	1802.0
72.5°	2065.5	1846.0	1618.0	1477.0	1374.0	1264.0	1236.0	1250.0
75°	1324.0	1118.5	915.5	788.5	694.5	589.5	549.0	559.0
77.5°	627.0	485.5	350.5	271.0	227.5	194.5	186.0	181.0
80°	232.5	188.5	166.5	158.0	152.0	146.5	142.5	138.0
82.5°	150.5	147.0	142.5	141.0	136.5	129.5	116.5	111.0
85°	112.5	112.5	106.5	107.0	103.5	94.5	82.5	76.0
87.5°	33.0	29.5	27.0	25.0	24.5	22.0	16.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)