

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: P147372

Luminaire Tested: **TLM-E06-LED-E1-5MQ-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147372  
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-E06-LED-E1-5MQ-7060  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (126) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19847.6 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

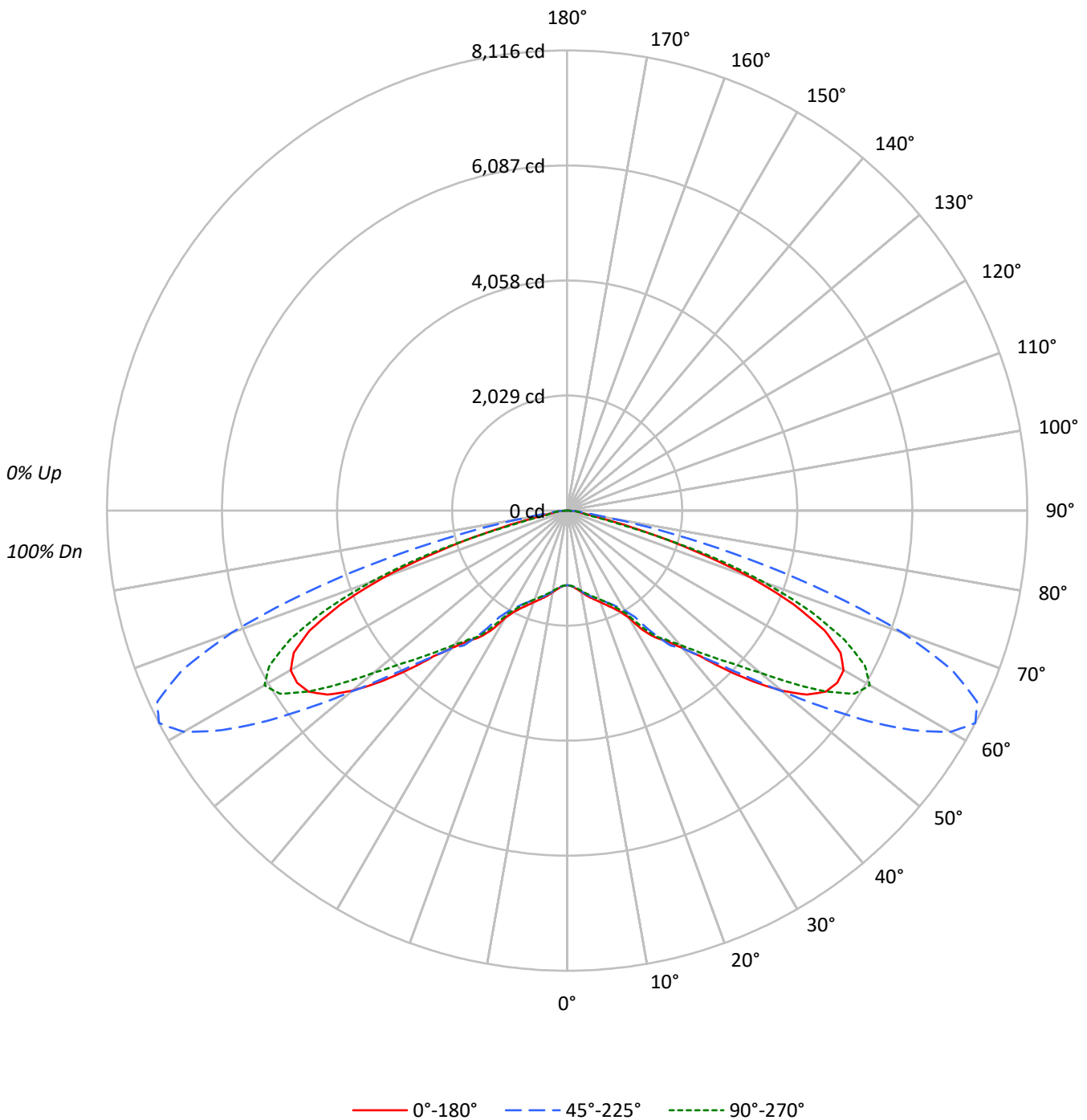
Input Watts (W): 150.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	14181	14181	14181
5°	14657	14579	14547
10°	15949	15780	15701
15°	17701	17368	17198
20°	19676	19205	19041
25°	22460	21547	21716
30°	27127	25303	26171
35°	36015	34693	35570
40°	44408	44537	43399
45°	60496	58777	55825
50°	82735	83166	74538
55°	104504	121411	104369
60°	121206	168059	132672
65°	127641	203171	137467
70°	108281	198054	116385
75°	54922	139031	47710
80°	17431	48282	17555
85°	18883	25096	19266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.0	0.7
10°-20°	446.3	2.2
20°-30°	863.0	4.3
30°-40°	1670.8	8.4
40°-50°	3016.9	15.2
50°-60°	5245.9	26.4
60°-70°	5955.5	30.0
70°-80°	2308.9	11.6
80°-90°	208.3	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°	1441.3	7.3
0°-40°	3112.1	15.7
0°-60°	11374.9	57.3
0°-90°	19847.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19847.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1356	1354	1349	1348	1346	133
15°	1588	1577	1559	1547	1543	454
25°	1891	1853	1814	1816	1828	891
35°	2741	2688	2640	2687	2707	1712
45°	3974	3883	3861	3710	3667	3113
55°	5569	5836	6470	5758	5562	4903
65°	5012	5753	7977	6193	5397	4778
75°	1321	1848	3343	1748	1147	1599
85°	153	219	203	219	156	150
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°	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5
2.5°	1325.8	1329.8	1328.8	1326.8	1326.8	1326.8	1325.7	1322.6	1321.6	1323.7	1325.8
5°	1356.5	1356.5	1356.5	1356.5	1354.4	1354.4	1352.4	1350.4	1351.4	1349.3	1348.3
7.5°	1403.8	1400.6	1400.6	1399.6	1399.6	1397.6	1394.4	1390.4	1391.4	1390.4	1389.4
10°	1459.2	1460.2	1457.0	1460.2	1455.0	1454.0	1449.9	1447.8	1446.8	1443.7	1443.8
12.5°	1525.8	1522.8	1522.8	1520.7	1518.6	1516.6	1510.4	1509.4	1505.3	1503.2	1500.2
15°	1588.4	1587.4	1583.2	1579.2	1578.1	1576.1	1568.9	1564.8	1563.8	1558.6	1554.6
17.5°	1651.0	1649.0	1643.8	1641.8	1637.6	1634.6	1628.4	1622.2	1619.2	1617.2	1612.0
20°	1717.7	1715.6	1710.5	1706.4	1701.2	1697.2	1688.0	1682.8	1679.7	1676.6	1672.6
22.5°	1800.8	1796.7	1788.5	1781.4	1770.0	1766.0	1753.6	1746.4	1741.3	1737.2	1735.1
25°	1891.1	1892.1	1880.8	1871.6	1858.2	1847.0	1831.6	1823.4	1818.3	1814.2	1813.2
27.5°	2004.0	2005.0	1994.7	1981.4	1960.9	1948.6	1928.0	1917.8	1914.7	1910.6	1909.6
30°	2182.5	2173.3	2155.8	2134.3	2115.9	2089.2	2059.4	2049.2	2038.9	2035.8	2035.8
32.5°	2510.9	2505.8	2491.4	2438.0	2413.4	2358.0	2305.6	2275.9	2242.0	2225.6	2215.4
35°	2740.8	2738.6	2727.4	2709.0	2693.5	2682.2	2651.4	2646.3	2640.2	2640.2	2648.4
37.5°	2910.0	2897.7	2895.6	2898.8	2894.6	2896.7	2921.3	2955.2	2984.0	2998.3	2996.2
40°	3160.4	3143.0	3153.2	3146.0	3136.8	3134.8	3143.0	3156.3	3169.6	3169.6	3166.6
42.5°	3487.7	3496.0	3500.0	3470.3	3450.8	3445.6	3465.2	3461.0	3474.4	3469.2	3455.9
45°	3974.1	3969.0	3961.8	3925.8	3895.1	3870.4	3875.6	3868.4	3869.4	3861.2	3851.0
47.5°	4464.6	4482.0	4452.2	4434.8	4400.0	4382.5	4396.8	4384.6	4408.2	4365.0	4344.5
50°	4940.7	4953.0	4942.8	4918.1	4918.2	4942.8	4960.2	4982.8	5015.6	4966.4	4892.5
52.5°	5330.6	5340.9	5356.2	5376.8	5427.0	5479.4	5553.3	5632.3	5694.9	5685.6	5601.5
55°	5568.7	5581.0	5606.6	5677.5	5767.8	5905.2	6072.5	6256.2	6399.8	6469.6	6408.0
57.5°	5648.7	5658.0	5727.8	5812.9	5953.5	6157.6	6437.8	6754.8	7030.8	7206.4	7178.6
60°	5630.2	5630.2	5701.0	5818.0	6015.0	6285.9	6682.0	7121.2	7544.0	7806.6	7767.6
62.5°	5436.3	5446.6	5548.2	5688.8	5926.8	6251.0	6723.0	7284.3	7790.2	8116.4	8084.7
65°	5011.5	5018.6	5128.4	5295.8	5561.5	5945.3	6461.4	7083.2	7663.0	7977.0	7917.4
67.5°	4325.0	4332.2	4421.5	4610.2	4891.4	5292.6	5849.8	6534.2	7101.7	7350.0	7171.4
70°	3440.6	3461.0	3518.5	3718.6	3932.0	4325.0	4838.1	5522.5	6058.2	6293.1	6096.1
72.5°	2344.6	2397.0	2466.8	2644.3	2848.5	3174.8	3583.2	4159.8	4589.8	4861.7	4686.2
75°	1320.6	1394.5	1416.0	1550.4	1718.8	1976.2	2274.9	2688.4	3122.4	3343.0	3131.7
77.5°	570.5	631.1	657.7	720.3	851.6	959.4	1141.0	1420.1	1755.6	1910.6	1657.2
80°	281.2	295.6	306.8	326.3	363.2	398.2	484.4	606.4	744.0	778.9	619.8
82.5°	217.6	227.8	247.3	262.7	271.9	281.2	289.4	305.8	319.1	326.3	307.8
85°	152.9	166.2	187.8	205.2	215.5	222.6	229.8	235.0	222.6	203.2	213.4
87.5°	40.0	52.4	72.8	79.0	89.2	94.4	92.4	95.5	86.2	62.6	69.8
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°	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5
2.5°	1324.7	1323.7	1324.7	1324.7	1324.7	1323.7	1323.7	1323.7
5°	1348.4	1348.3	1349.4	1347.2	1347.2	1348.3	1347.3	1346.3
7.5°	1388.3	1387.3	1387.3	1386.3	1387.3	1386.3	1386.2	1385.2
10°	1441.7	1439.6	1440.7	1437.6	1437.6	1436.6	1436.6	1436.5
12.5°	1499.1	1496.0	1497.1	1494.0	1488.8	1489.9	1491.0	1489.9
15°	1554.6	1551.5	1548.4	1546.4	1543.2	1544.3	1544.3	1543.3
17.5°	1611.0	1604.8	1603.8	1600.8	1599.7	1599.7	1599.7	1600.7
20°	1669.5	1665.4	1664.4	1661.3	1660.2	1663.3	1664.4	1662.3
22.5°	1732.1	1730.0	1732.1	1730.0	1733.0	1735.2	1736.2	1734.1
25°	1811.0	1809.0	1812.1	1819.3	1823.4	1825.4	1830.6	1828.5
27.5°	1912.6	1910.6	1917.8	1928.0	1934.2	1944.5	1949.6	1951.7
30°	2044.0	2053.2	2057.3	2077.9	2082.0	2098.4	2098.4	2105.6
32.5°	2234.8	2252.3	2283.1	2314.9	2359.0	2390.8	2390.8	2407.2
35°	2653.5	2660.7	2684.3	2689.4	2698.6	2708.9	2698.6	2706.9
37.5°	2974.7	2942.9	2920.3	2888.5	2869.0	2869.0	2871.0	2869.0
40°	3138.8	3126.5	3116.2	3089.6	3085.5	3084.5	3084.4	3088.6
42.5°	3432.4	3402.6	3386.2	3363.6	3356.4	3354.4	3353.3	3355.4
45°	3814.0	3765.8	3721.7	3699.1	3679.6	3661.1	3667.3	3667.3
47.5°	4258.3	4183.4	4111.6	4072.6	4038.8	4023.4	4013.1	4010.0
50°	4799.1	4694.4	4602.1	4529.2	4480.0	4479.0	4484.1	4451.2
52.5°	5462.0	5296.8	5181.8	5083.4	5037.2	5032.0	5015.6	4997.1
55°	6196.6	6000.6	5810.8	5705.2	5644.6	5611.8	5592.2	5561.5
57.5°	6953.9	6690.2	6417.2	6248.0	6141.2	6067.4	6028.4	6010.9
60°	7537.8	7177.6	6817.4	6545.6	6368.0	6258.2	6190.5	6162.8
62.5°	7767.6	7279.2	6817.4	6460.3	6203.8	6052.0	5960.6	5920.6
65°	7493.6	6915.0	6389.6	5995.6	5709.2	5540.0	5440.4	5397.3
67.5°	6728.2	6217.2	5645.6	5253.6	4959.2	4792.0	4684.2	4652.4
70°	5640.5	5118.2	4572.4	4222.4	3959.8	3823.3	3711.4	3698.1
72.5°	4238.8	3788.4	3320.4	3031.1	2819.8	2594.0	2536.6	2565.3
75°	2717.1	2295.4	1878.8	1618.2	1425.2	1209.8	1126.7	1147.2
77.5°	1286.8	996.4	719.3	556.2	466.9	399.2	381.7	371.5
80°	477.2	386.8	341.7	324.2	312.0	300.6	292.5	283.2
82.5°	308.8	301.6	292.4	289.4	280.2	265.8	239.1	227.8
85°	230.8	230.8	218.6	219.6	212.4	194.0	169.3	156.0
87.5°	67.7	60.5	55.4	51.3	50.2	45.2	32.8	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)