

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: P148408

Luminaire Tested: **TLM-E06-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148408  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
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-E1-5XQ-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (126) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

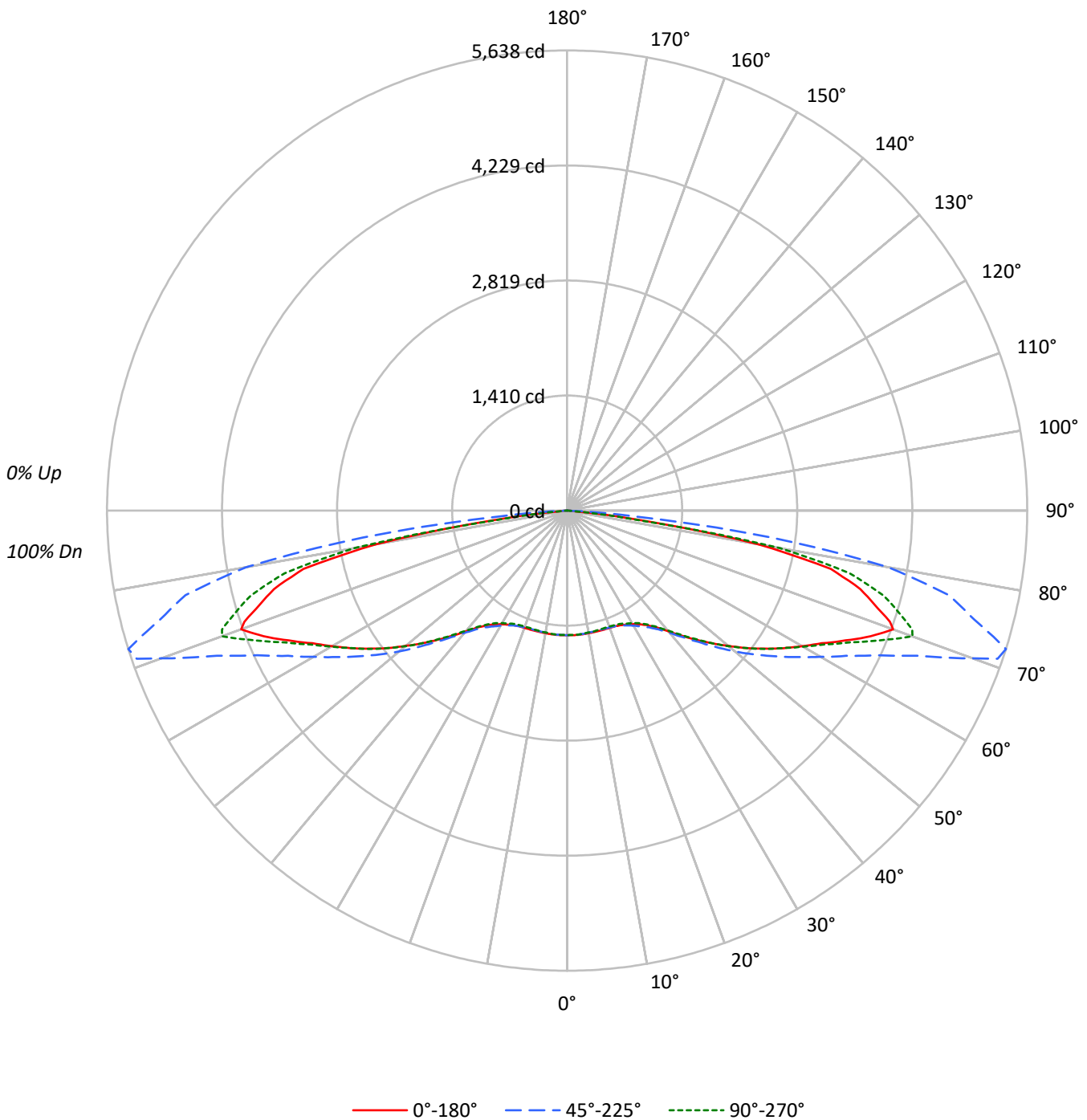
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16105.2 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16425	16425	16425
5°	16515	16487	16479
10°	16669	16605	16576
15°	17004	16900	16854
20°	17518	17446	17324
25°	18393	18444	18174
30°	19974	20230	19785
35°	22513	22946	22369
40°	27146	27460	26919
45°	34047	34643	33917
50°	43177	44944	43276
55°	55357	58365	55466
60°	71515	77139	71787
65°	95893	106748	97291
70°	133767	166661	141735
75°	154759	214693	166795
80°	147275	247303	163385
85°	11992	100271	7818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	0.9
10°-20°	430.2	2.7
20°-30°	720.4	4.5
30°-40°	1098.2	6.8
40°-50°	1753.6	10.9
50°-60°	2696.3	16.7
60°-70°	3925.8	24.4
70°-80°	4422.4	27.5
80°-90°	912.9	5.7
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°	1296.0	8.0
0°-40°	2394.2	14.9
0°-60°	6844.1	42.5
0°-90°	16105.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16105.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1528	1527	1526	1525	1525	146
15°	1526	1522	1517	1510	1512	433
25°	1549	1551	1553	1538	1530	722
35°	1713	1726	1746	1716	1702	1094
45°	2237	2236	2276	2239	2228	1745
55°	2950	2958	3110	2971	2956	2654
65°	3765	3780	4191	3835	3820	3752
75°	3721	3957	5162	4283	4011	3790
85°	97	256	812	206	63	604
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°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1528.5	1529.3	1528.9	1528.1	1528.5	1528.1	1527.2	1526.8	1523.8	1525.5	1528.0
5°	1528.5	1527.6	1527.2	1526.8	1526.8	1528.0	1526.8	1525.5	1525.1	1525.9	1524.7
7.5°	1527.6	1526.0	1525.1	1524.7	1525.1	1525.5	1524.2	1522.6	1523.8	1522.6	1520.9
10°	1525.1	1523.8	1524.2	1522.6	1523.0	1522.6	1520.9	1519.6	1520.4	1519.2	1517.1
12.5°	1525.9	1523.8	1523.4	1522.6	1522.2	1521.7	1519.6	1517.5	1517.9	1517.1	1515.0
15°	1525.9	1524.7	1524.2	1522.6	1522.2	1521.3	1518.8	1517.9	1517.9	1516.6	1514.1
17.5°	1526.8	1525.9	1525.9	1523.8	1523.0	1522.6	1519.6	1518.3	1519.6	1517.1	1515.4
20°	1529.3	1528.4	1528.9	1527.6	1525.9	1526.0	1523.8	1523.0	1523.4	1523.0	1518.3
22.5°	1534.4	1534.4	1535.2	1534.8	1534.4	1534.8	1533.1	1533.1	1533.5	1533.5	1529.7
25°	1548.7	1548.3	1549.2	1549.1	1549.5	1552.5	1551.2	1550.8	1553.0	1553.0	1549.2
27.5°	1575.8	1574.9	1575.7	1576.6	1578.7	1582.5	1581.7	1582.9	1586.3	1585.4	1582.0
30°	1607.0	1606.1	1608.2	1610.8	1612.4	1618.4	1615.8	1622.2	1625.1	1627.6	1625.1
32.5°	1652.5	1652.5	1656.4	1658.0	1661.8	1667.7	1668.6	1673.6	1677.4	1681.6	1678.7
35°	1713.3	1712.4	1715.4	1718.4	1723.0	1728.5	1730.6	1737.4	1743.2	1746.2	1740.7
37.5°	1806.2	1801.5	1807.0	1808.7	1812.5	1813.7	1819.7	1828.1	1834.4	1833.6	1829.8
40°	1931.9	1931.0	1929.0	1926.4	1932.3	1934.4	1934.4	1945.8	1956.0	1954.3	1953.8
42.5°	2078.8	2075.0	2072.4	2072.4	2075.8	2076.6	2089.7	2098.1	2105.4	2107.0	2105.4
45°	2236.6	2232.8	2233.6	2231.9	2233.2	2238.7	2246.3	2261.9	2275.4	2275.8	2268.6
47.5°	2406.2	2394.4	2403.7	2390.6	2398.6	2402.8	2421.8	2444.6	2468.3	2472.5	2466.1
50°	2578.4	2577.1	2576.3	2573.8	2577.6	2586.8	2610.0	2645.9	2668.7	2683.9	2673.8
52.5°	2766.6	2760.3	2757.3	2753.1	2756.9	2775.0	2807.6	2838.8	2879.7	2897.0	2883.1
55°	2949.8	2947.6	2936.7	2936.2	2944.2	2972.5	3008.0	3046.4	3090.7	3110.1	3105.0
57.5°	3138.0	3125.7	3122.4	3117.2	3133.3	3159.9	3203.4	3272.6	3318.6	3340.5	3327.8
60°	3322.0	3312.7	3305.5	3303.8	3314.8	3351.9	3414.4	3497.5	3554.5	3583.2	3562.9
62.5°	3519.4	3513.5	3505.1	3495.4	3518.6	3566.3	3643.9	3735.9	3819.9	3855.3	3824.6
65°	3765.0	3752.8	3743.5	3731.3	3750.3	3810.2	3907.7	4037.2	4149.9	4191.2	4169.3
67.5°	4024.2	4012.8	4013.6	4006.0	4039.8	4122.9	4248.7	4424.6	4575.7	4646.2	4604.8
70°	4250.4	4256.7	4258.4	4289.2	4347.4	4474.0	4683.3	4958.9	5188.0	5295.6	5251.3
71°	4183.6	4197.6	4219.1	4251.2	4351.6	4501.4	4787.1	5120.9	5394.4	5576.7	5515.5
72.5°	3994.6	4003.0	4014.0	4063.0	4176.5	4374.8	4669.0	5050.4	5402.0	5637.9	5567.0
75°	3721.2	3729.2	3733.0	3767.2	3870.5	4043.6	4312.8	4651.2	4961.4	5162.3	5142.4
77.5°	3308.4	3309.7	3339.2	3392.0	3508.0	3706.0	3989.6	4340.6	4632.2	4788.4	4689.2
80°	2375.9	2359.8	2390.2	2458.1	2601.6	2828.6	3119.0	3519.9	3843.6	3989.6	3835.9
82.5°	903.9	952.9	1030.1	1142.4	1190.9	1443.2	1714.2	1949.6	2222.2	2526.9	2450.5
85°	97.1	109.3	137.2	170.1	214.8	297.1	410.6	560.4	690.8	811.9	720.8
87.5°	36.3	37.1	41.4	47.7	48.6	50.6	54.0	62.9	58.6	50.7	40.9
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°	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9	1525.9
2.5°	1525.9	1526.4	1525.9	1526.4	1526.4	1524.7	1525.1	1524.2
5°	1525.5	1524.2	1524.7	1525.1	1524.7	1525.5	1524.2	1525.1
7.5°	1523.4	1520.9	1521.7	1521.7	1520.8	1522.1	1521.3	1520.8
10°	1519.2	1515.8	1517.5	1516.6	1516.2	1516.6	1516.6	1516.6
12.5°	1515.4	1513.3	1513.7	1513.3	1512.9	1514.1	1513.7	1514.2
15°	1514.5	1511.1	1510.8	1509.9	1510.3	1511.1	1511.2	1512.4
17.5°	1513.7	1509.5	1509.1	1508.2	1508.6	1510.3	1510.8	1509.9
20°	1516.2	1512.8	1512.0	1511.1	1510.7	1512.8	1512.4	1512.4
22.5°	1528.0	1523.8	1523.4	1520.0	1518.8	1520.0	1519.2	1519.2
25°	1547.0	1542.0	1540.3	1535.6	1532.3	1532.3	1531.0	1530.2
27.5°	1581.2	1573.6	1572.0	1568.1	1563.5	1564.3	1561.8	1561.4
30°	1620.9	1614.1	1608.2	1602.8	1597.2	1595.1	1592.2	1591.8
32.5°	1672.8	1665.2	1658.0	1651.3	1643.7	1640.7	1635.6	1633.1
35°	1736.5	1726.4	1717.9	1713.3	1705.7	1701.9	1698.5	1702.3
37.5°	1825.6	1813.3	1809.1	1803.6	1798.6	1792.6	1793.9	1792.6
40°	1948.8	1937.8	1933.6	1923.9	1922.6	1915.8	1920.1	1915.8
42.5°	2101.1	2080.8	2077.9	2070.3	2067.8	2064.0	2065.7	2062.7
45°	2267.0	2248.8	2245.5	2233.2	2233.6	2224.8	2228.1	2228.1
47.5°	2453.5	2434.5	2418.9	2410.0	2406.6	2401.1	2404.1	2403.7
50°	2645.9	2620.2	2602.8	2585.6	2578.0	2580.1	2574.2	2584.3
52.5°	2852.7	2814.3	2789.8	2773.4	2759.0	2762.0	2762.8	2765.8
55°	3066.6	3017.7	2982.2	2960.7	2947.6	2948.5	2952.2	2955.6
57.5°	3281.9	3220.6	3172.6	3140.5	3132.0	3135.9	3135.8	3135.4
60°	3505.1	3431.7	3369.6	3333.3	3325.8	3323.6	3340.1	3334.6
62.5°	3744.8	3656.6	3592.4	3546.0	3535.0	3542.6	3557.4	3554.0
65°	4062.6	3940.6	3857.9	3811.9	3793.3	3800.9	3820.8	3819.9
67.5°	4472.3	4301.8	4192.5	4133.4	4119.9	4129.2	4140.2	4150.8
70°	5085.0	4841.5	4685.4	4557.5	4502.7	4492.2	4503.1	4503.6
71°	5300.7	5020.9	4772.4	4616.2	4526.3	4488.3	4491.3	4472.3
72.5°	5291.8	4947.1	4656.3	4493.0	4368.0	4337.7	4322.9	4300.1
75°	4935.2	4624.6	4372.3	4194.2	4073.9	4038.1	4011.9	4010.6
77.5°	4475.6	4246.6	3968.4	3779.8	3633.4	3573.9	3547.3	3546.4
80°	3597.9	3254.8	3051.4	2938.0	2761.1	2710.1	2656.0	2635.8
82.5°	2175.8	1700.2	1382.5	1228.4	1143.2	941.5	844.8	799.2
85°	506.8	360.0	248.1	162.9	117.3	93.2	71.7	63.3
87.5°	34.2	27.0	24.1	19.4	14.8	14.4	8.9	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)