

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: P148415

Luminaire Tested: **TLM-F06-LED-E1-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148415
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-F06-LED-E1-5XQ
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15752.9 lumens
Efficiency: N/A
Efficacy: 100.7 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

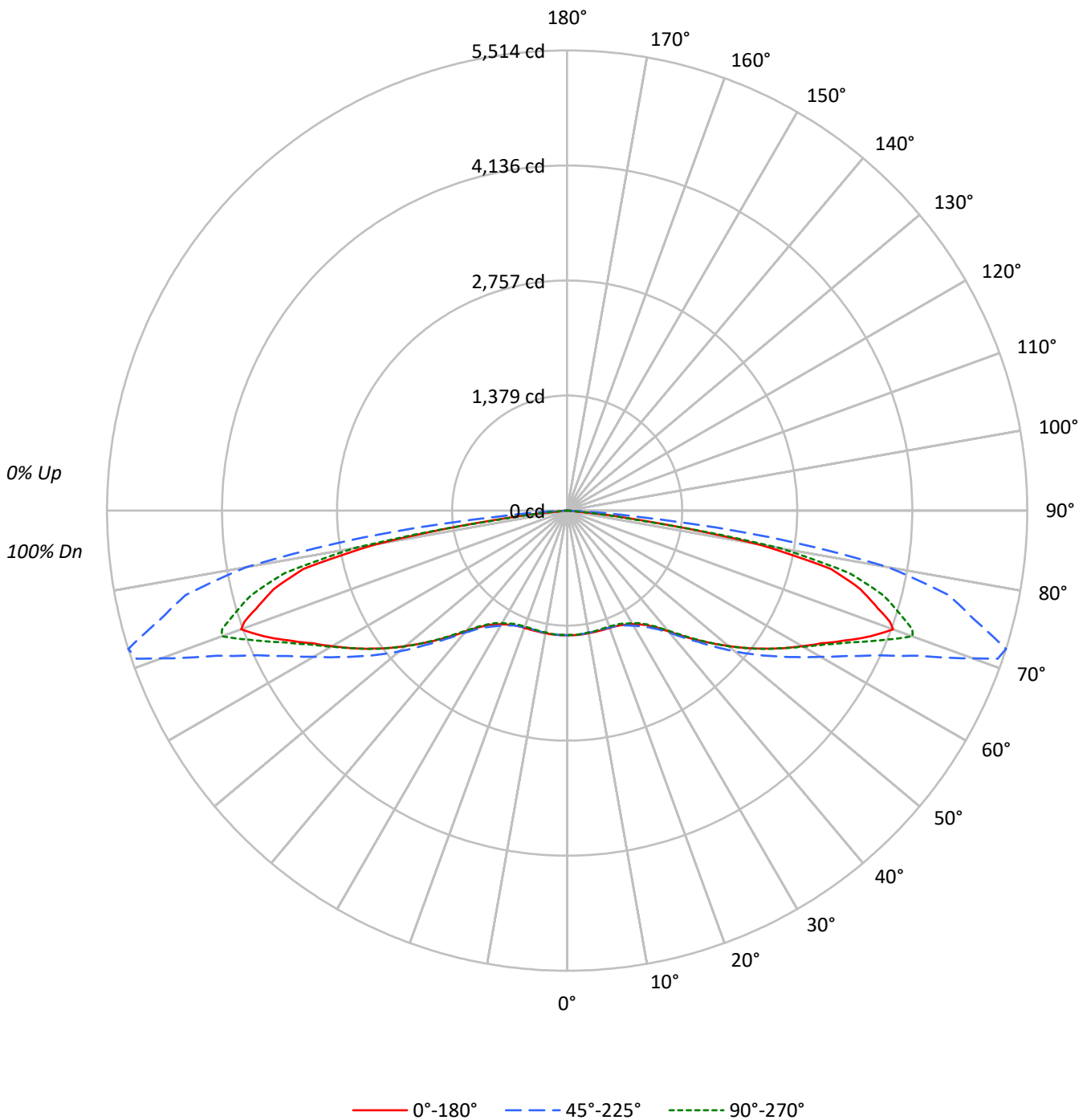
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73	70
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52	49
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38	36
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30	27
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24	21
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19	17
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16	14
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14	12
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12	10
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16065	16065	16065
5°	16154	16128	16118
10°	16304	16242	16214
15°	16633	16530	16486
20°	17134	17064	16946
25°	17991	18041	17776
30°	19536	19787	19352
35°	22021	22444	21880
40°	26551	26859	26332
45°	33301	33885	33176
50°	42233	43961	42330
55°	54145	57089	54253
60°	69948	75451	70215
65°	93794	104413	95162
70°	130840	163017	138632
75°	151374	209993	163148
80°	144051	241885	159808
85°	11720	98073	7645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	0.9
10°-20°	420.8	2.7
20°-30°	704.6	4.5
30°-40°	1074.2	6.8
40°-50°	1715.2	10.9
50°-60°	2637.3	16.7
60°-70°	3839.9	24.4
70°-80°	4325.6	27.5
80°-90°	893.0	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°	1267.6	8.0
0°-40°	2341.8	14.9
0°-60°	6694.3	42.5
0°-90°	15752.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15752.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1495	1494	1493	1492	1492	143
15°	1493	1488	1483	1477	1479	423
25°	1515	1517	1519	1504	1497	706
35°	1676	1688	1708	1678	1665	1070
45°	2188	2187	2226	2190	2179	1707
55°	2885	2894	3042	2906	2891	2596
65°	3683	3698	4100	3751	3736	3670
75°	3640	3870	5049	4190	3923	3707
85°	95	250	794	201	62	591
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°	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5
2.5°	1495.0	1495.8	1495.4	1494.6	1495.0	1494.6	1493.8	1493.4	1490.5	1492.1	1494.6
5°	1495.0	1494.2	1493.8	1493.4	1493.4	1494.6	1493.4	1492.1	1491.8	1492.6	1491.3
7.5°	1494.2	1492.6	1491.7	1491.3	1491.8	1492.1	1490.9	1489.2	1490.5	1489.2	1487.6
10°	1491.7	1490.5	1490.9	1489.2	1489.6	1489.2	1487.6	1486.3	1487.2	1486.0	1483.9
12.5°	1492.6	1490.5	1490.0	1489.2	1488.8	1488.4	1486.4	1484.3	1484.7	1483.9	1481.8
15°	1492.6	1491.3	1490.9	1489.2	1488.8	1488.0	1485.5	1484.7	1484.7	1483.4	1481.0
17.5°	1493.4	1492.6	1492.6	1490.5	1489.6	1489.2	1486.4	1485.2	1486.4	1483.9	1482.2
20°	1495.8	1495.0	1495.4	1494.2	1492.6	1492.6	1490.5	1489.7	1490.1	1489.7	1485.1
22.5°	1500.8	1500.8	1501.6	1501.2	1500.8	1501.2	1499.6	1499.6	1500.0	1500.0	1496.3
25°	1514.8	1514.4	1515.3	1515.2	1515.7	1518.6	1517.4	1516.9	1519.0	1519.0	1515.2
27.5°	1541.2	1540.4	1541.2	1542.0	1544.1	1547.9	1547.0	1548.3	1551.6	1550.8	1547.4
30°	1571.8	1571.0	1573.0	1575.5	1577.1	1583.0	1580.4	1586.6	1589.6	1592.0	1589.6
32.5°	1616.4	1616.4	1620.1	1621.8	1625.4	1631.2	1632.1	1637.0	1640.7	1644.8	1642.0
35°	1675.8	1675.0	1677.9	1680.8	1685.3	1690.7	1692.7	1699.3	1705.1	1708.0	1702.6
37.5°	1766.6	1762.1	1767.4	1769.1	1772.8	1774.0	1779.8	1788.1	1794.3	1793.4	1789.7
40°	1889.6	1888.8	1886.8	1884.3	1890.0	1892.1	1892.1	1903.2	1913.2	1911.5	1911.1
42.5°	2033.3	2029.6	2027.1	2027.1	2030.4	2031.2	2044.0	2052.3	2059.3	2060.9	2059.3
45°	2187.6	2183.9	2184.8	2183.1	2184.3	2189.7	2197.1	2212.4	2225.6	2226.0	2219.0
47.5°	2353.6	2342.0	2351.1	2338.3	2346.2	2350.3	2368.9	2391.1	2414.2	2418.4	2412.2
50°	2522.0	2520.8	2519.9	2517.4	2521.2	2530.2	2553.0	2588.0	2610.3	2625.2	2615.3
52.5°	2706.1	2699.9	2697.0	2692.8	2696.6	2714.3	2746.1	2776.6	2816.7	2833.6	2820.0
55°	2885.2	2883.2	2872.4	2872.0	2879.8	2907.5	2942.2	2979.7	3023.1	3042.1	3037.1
57.5°	3069.3	3057.4	3054.0	3049.0	3064.7	3090.8	3133.3	3201.0	3246.0	3267.4	3255.0
60°	3249.2	3240.2	3233.2	3231.5	3242.2	3278.6	3339.6	3421.0	3476.7	3504.8	3485.0
62.5°	3442.4	3436.7	3428.4	3418.9	3441.6	3488.2	3564.2	3654.2	3736.3	3771.0	3740.8
65°	3682.6	3670.7	3661.6	3649.7	3668.2	3726.8	3822.2	3948.9	4059.1	4099.5	4078.1
67.5°	3936.1	3925.0	3925.8	3918.3	3951.4	4032.7	4155.7	4327.8	4475.6	4544.5	4504.1
70°	4157.4	4163.5	4165.2	4195.3	4252.3	4376.1	4580.9	4850.4	5074.5	5179.8	5136.4
71°	4092.2	4105.8	4126.8	4158.2	4256.4	4402.9	4682.4	5008.9	5276.3	5454.6	5394.8
72.5°	3907.2	3915.5	3926.2	3974.1	4085.1	4279.1	4566.8	4939.9	5283.8	5514.5	5445.2
75°	3639.8	3647.6	3651.3	3684.7	3785.8	3955.1	4218.4	4549.5	4852.8	5049.3	5029.9
77.5°	3236.0	3237.3	3266.2	3317.8	3431.3	3624.9	3902.2	4245.7	4530.9	4683.6	4586.6
80°	2323.9	2308.1	2337.9	2404.4	2544.7	2766.7	3050.7	3442.8	3759.4	3902.2	3752.0
82.5°	884.1	932.0	1007.6	1117.4	1164.8	1411.6	1676.6	1907.0	2173.6	2471.6	2396.9
85°	94.9	106.9	134.2	166.4	210.1	290.6	401.6	548.2	675.7	794.1	705.0
87.5°	35.5	36.3	40.4	46.6	47.4	49.5	52.8	61.5	57.4	49.5	40.0
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°	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5	1492.5
2.5°	1492.5	1493.0	1492.5	1493.0	1493.0	1491.3	1491.7	1490.9
5°	1492.1	1490.9	1491.3	1491.7	1491.3	1492.1	1490.9	1491.7
7.5°	1490.1	1487.6	1488.4	1488.4	1487.6	1488.8	1488.0	1487.6
10°	1486.0	1482.6	1484.3	1483.4	1483.0	1483.5	1483.4	1483.4
12.5°	1482.2	1480.2	1480.6	1480.2	1479.8	1481.0	1480.6	1481.0
15°	1481.4	1478.1	1477.7	1476.8	1477.2	1478.1	1478.1	1479.4
17.5°	1480.6	1476.4	1476.0	1475.2	1475.6	1477.3	1477.7	1476.8
20°	1483.1	1479.8	1478.9	1478.1	1477.7	1479.8	1479.3	1479.4
22.5°	1494.6	1490.5	1490.1	1486.8	1485.5	1486.8	1485.9	1485.9
25°	1513.2	1508.2	1506.6	1502.0	1498.8	1498.7	1497.5	1496.7
27.5°	1546.6	1539.2	1537.5	1533.8	1529.3	1530.1	1527.6	1527.2
30°	1585.4	1578.8	1573.0	1567.7	1562.3	1560.2	1557.4	1557.0
32.5°	1636.2	1628.8	1621.8	1615.1	1607.7	1604.8	1599.8	1597.4
35°	1698.5	1688.6	1680.4	1675.8	1668.4	1664.7	1661.4	1665.1
37.5°	1785.6	1773.6	1769.5	1764.2	1759.2	1753.4	1754.6	1753.4
40°	1906.2	1895.4	1891.3	1881.8	1880.6	1874.0	1878.1	1874.0
42.5°	2055.1	2035.3	2032.4	2025.0	2022.5	2018.8	2020.5	2017.6
45°	2217.4	2199.6	2196.3	2184.4	2184.8	2176.1	2179.4	2179.4
47.5°	2399.8	2381.2	2366.0	2357.3	2354.0	2348.6	2351.5	2351.1
50°	2588.0	2562.9	2545.9	2529.0	2521.6	2523.6	2517.9	2527.8
52.5°	2790.3	2752.7	2728.8	2712.7	2698.6	2701.5	2702.4	2705.2
55°	2999.5	2951.7	2917.0	2896.0	2883.1	2884.0	2887.7	2891.0
57.5°	3210.0	3150.2	3103.1	3071.8	3063.5	3067.2	3067.2	3066.8
60°	3428.4	3356.6	3295.9	3260.4	3253.0	3250.9	3267.0	3261.6
62.5°	3662.8	3576.6	3513.8	3468.4	3457.7	3465.1	3479.6	3476.3
65°	3973.6	3854.4	3773.5	3728.5	3710.3	3717.8	3737.2	3736.3
67.5°	4374.4	4207.7	4100.8	4043.0	4029.8	4038.9	4049.6	4060.0
70°	4973.8	4735.6	4582.9	4457.8	4404.2	4393.9	4404.6	4405.0
71°	5184.7	4911.0	4667.9	4515.2	4427.3	4390.2	4393.0	4374.4
72.5°	5176.0	4838.8	4554.4	4394.7	4272.5	4242.8	4228.3	4206.0
75°	4827.3	4523.5	4276.6	4102.4	3984.8	3949.8	3924.1	3922.9
77.5°	4377.8	4153.6	3881.6	3697.1	3553.9	3495.7	3469.7	3468.8
80°	3519.2	3183.6	2984.7	2873.6	2700.7	2650.8	2597.9	2578.1
82.5°	2128.2	1663.0	1352.2	1201.6	1118.2	920.9	826.4	781.8
85°	495.7	352.1	242.7	159.3	114.8	91.2	70.2	61.9
87.5°	33.4	26.4	23.5	19.0	14.4	14.0	8.7	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)