

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: P148416

Luminaire Tested: **TLM-F06-LED-E1-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148416
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-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

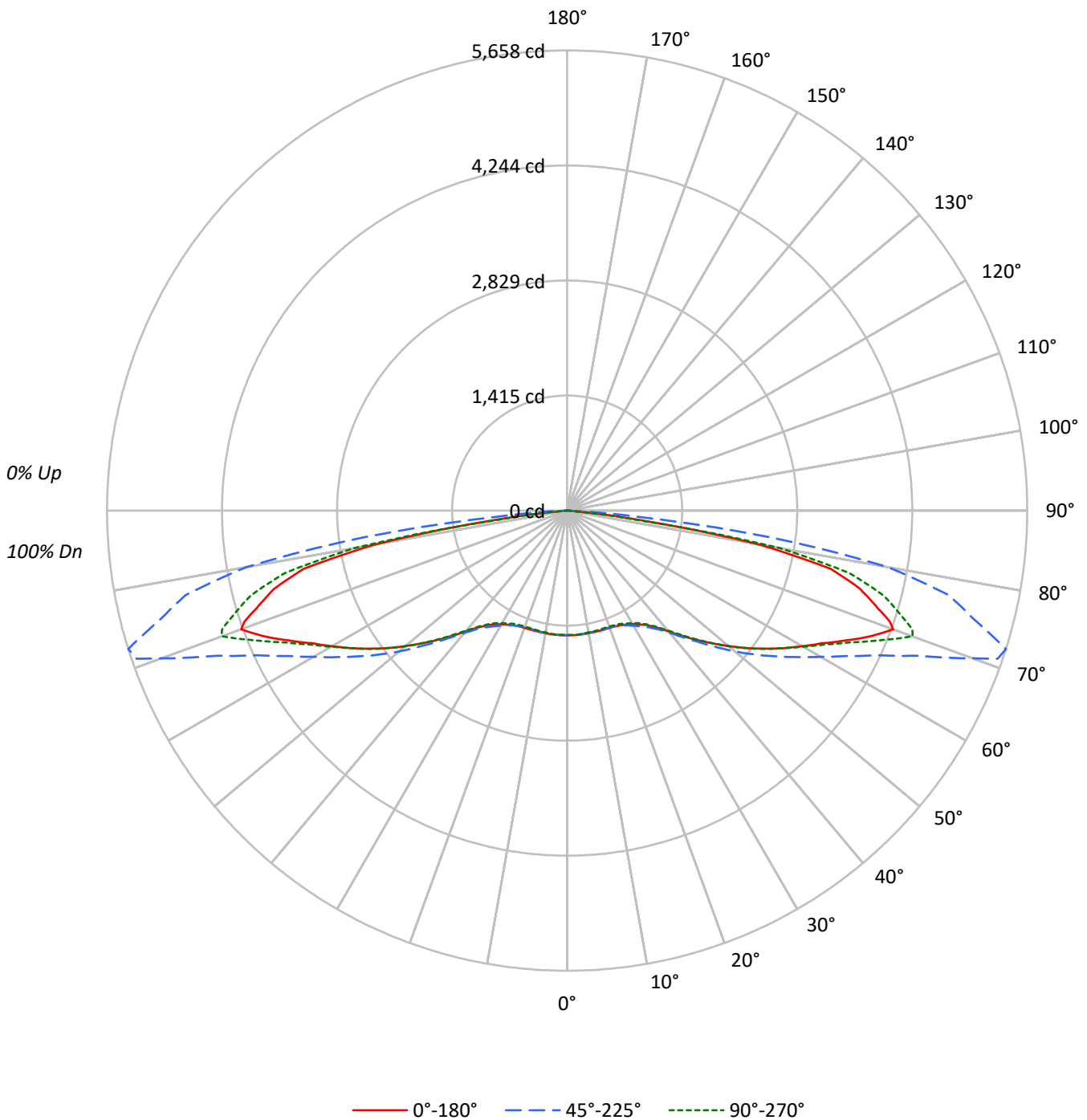
Lumens per Lamp: N/A
Luminaire Lumens: 16164.1 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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°	16485	16485	16485
5°	16575	16548	16538
10°	16730	16666	16638
15°	17068	16963	16915
20°	17582	17510	17387
25°	18461	18511	18240
30°	20046	20304	19857
35°	22596	23030	22452
40°	27245	27560	27018
45°	34171	34770	34042
50°	43334	45108	43435
55°	55558	58579	55668
60°	71776	77418	72049
65°	96244	107140	97645
70°	134251	167271	142252
75°	155325	215475	167406
80°	147808	248202	163980
85°	12029	100642	7855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	0.9
10°-20°	431.8	2.7
20°-30°	723.0	4.5
30°-40°	1102.2	6.8
40°-50°	1760.0	10.9
50°-60°	2706.1	16.7
60°-70°	3940.2	24.4
70°-80°	4438.6	27.5
80°-90°	916.3	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°	1300.7	8.0
0°-40°	2403.0	14.9
0°-60°	6869.1	42.5
0°-90°	16164.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16164.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1534	1533	1532	1530	1531	146
15°	1532	1527	1522	1516	1518	434
25°	1554	1557	1559	1544	1536	724
35°	1720	1732	1753	1722	1709	1098
45°	2245	2244	2284	2248	2236	1751
55°	2960	2969	3122	2982	2966	2664
65°	3779	3794	4207	3849	3834	3766
75°	3735	3972	5181	4299	4025	3804
85°	97	257	815	206	64	606
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°	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5
2.5°	1534.1	1534.9	1534.5	1533.6	1534.1	1533.6	1532.8	1532.4	1529.4	1531.1	1533.6
5°	1534.0	1533.2	1532.8	1532.4	1532.4	1533.6	1532.4	1531.1	1530.7	1531.5	1530.2
7.5°	1533.2	1531.5	1530.7	1530.2	1530.7	1531.1	1529.8	1528.1	1529.4	1528.1	1526.4
10°	1530.7	1529.4	1529.8	1528.1	1528.6	1528.1	1526.4	1525.2	1526.0	1524.8	1522.6
12.5°	1531.6	1529.4	1529.0	1528.1	1527.7	1527.3	1525.2	1523.1	1523.4	1522.6	1520.5
15°	1531.6	1530.3	1529.8	1528.1	1527.7	1526.9	1524.3	1523.5	1523.4	1522.2	1519.6
17.5°	1532.4	1531.5	1531.6	1529.4	1528.6	1528.2	1525.2	1523.9	1525.2	1522.6	1520.9
20°	1534.9	1534.1	1534.4	1533.2	1531.5	1531.5	1529.4	1528.6	1529.0	1528.6	1523.9
22.5°	1540.0	1540.0	1540.8	1540.4	1540.0	1540.4	1538.7	1538.7	1539.1	1539.1	1535.3
25°	1554.4	1554.0	1554.8	1554.8	1555.2	1558.2	1557.0	1556.5	1558.6	1558.6	1554.8
27.5°	1581.4	1580.6	1581.5	1582.3	1584.4	1588.2	1587.4	1588.7	1592.1	1591.2	1587.8
30°	1612.8	1612.0	1614.1	1616.6	1618.4	1624.3	1621.7	1628.1	1631.0	1633.6	1631.0
32.5°	1658.6	1658.6	1662.4	1664.1	1667.9	1673.8	1674.6	1679.8	1683.6	1687.8	1684.8
35°	1719.6	1718.7	1721.7	1724.6	1729.3	1734.8	1736.9	1743.7	1749.6	1752.6	1747.1
37.5°	1812.7	1808.1	1813.6	1815.3	1819.1	1820.4	1826.3	1834.8	1841.1	1840.3	1836.4
40°	1939.0	1938.1	1936.0	1933.4	1939.4	1941.5	1941.5	1952.9	1963.1	1961.4	1961.0
42.5°	2086.3	2082.5	2080.0	2080.0	2083.4	2084.2	2097.4	2105.8	2113.0	2114.7	2113.0
45°	2244.8	2241.0	2241.8	2240.1	2241.4	2246.9	2254.5	2270.2	2283.7	2284.1	2277.0
47.5°	2415.0	2403.2	2412.5	2399.4	2407.4	2411.6	2430.7	2453.6	2477.3	2481.5	2475.1
50°	2587.8	2586.5	2585.7	2583.2	2587.0	2596.3	2619.6	2655.6	2678.4	2693.7	2683.6
52.5°	2776.8	2770.4	2767.4	2763.2	2767.0	2785.2	2817.8	2849.1	2890.2	2907.6	2893.6
55°	2960.5	2958.4	2947.4	2947.0	2955.0	2983.4	3019.0	3057.5	3102.0	3121.5	3116.4
57.5°	3149.4	3137.1	3133.8	3128.7	3144.8	3171.4	3215.1	3284.5	3330.7	3352.7	3340.0
60°	3334.1	3324.8	3317.6	3315.8	3326.9	3364.2	3426.8	3510.3	3567.4	3596.2	3575.9
62.5°	3532.3	3526.4	3517.9	3508.2	3531.5	3579.3	3657.3	3749.6	3833.9	3869.4	3838.5
65°	3778.8	3766.5	3757.2	3744.9	3764.0	3824.1	3922.0	4052.0	4165.1	4206.6	4184.6
67.5°	4038.8	4027.4	4028.3	4020.7	4054.5	4138.0	4264.2	4440.8	4592.4	4663.2	4621.6
70°	4265.8	4272.2	4273.9	4304.8	4363.3	4490.4	4700.4	4977.0	5207.0	5315.0	5270.5
71°	4199.0	4212.9	4234.5	4266.7	4367.5	4517.9	4804.6	5139.6	5414.1	5597.1	5535.6
72.5°	4009.2	4017.7	4028.7	4077.8	4191.8	4390.8	4686.0	5068.9	5421.7	5658.5	5587.3
75°	3734.8	3742.8	3746.6	3780.9	3884.7	4058.3	4328.6	4668.2	4979.5	5181.1	5161.2
77.5°	3320.5	3321.8	3351.4	3404.4	3520.8	3719.5	4004.1	4356.5	4649.2	4805.9	4706.4
80°	2384.5	2368.4	2398.9	2467.1	2611.1	2839.0	3130.4	3532.7	3857.6	4004.1	3850.0
82.5°	907.2	956.4	1033.8	1146.5	1195.2	1448.5	1720.4	1956.8	2230.3	2536.2	2459.5
85°	97.4	109.7	137.6	170.7	215.6	298.2	412.1	562.4	693.4	814.9	723.4
87.5°	36.4	37.3	41.5	47.8	48.7	50.8	54.2	63.1	58.9	50.8	41.1
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°	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5	1531.5
2.5°	1531.5	1531.9	1531.5	1531.9	1531.9	1530.2	1530.6	1529.8
5°	1531.1	1529.8	1530.2	1530.6	1530.2	1531.1	1529.8	1530.6
7.5°	1529.0	1526.4	1527.3	1527.3	1526.4	1527.7	1526.9	1526.4
10°	1524.8	1521.4	1523.0	1522.2	1521.8	1522.2	1522.2	1522.2
12.5°	1520.9	1518.8	1519.2	1518.8	1518.4	1519.6	1519.2	1519.6
15°	1520.1	1516.7	1516.2	1515.4	1515.8	1516.7	1516.7	1517.9
17.5°	1519.2	1515.0	1514.6	1513.7	1514.1	1515.8	1516.2	1515.4
20°	1521.8	1518.4	1517.5	1516.7	1516.2	1518.4	1518.0	1517.9
22.5°	1533.6	1529.4	1529.0	1525.6	1524.3	1525.6	1524.8	1524.8
25°	1552.7	1547.6	1545.9	1541.2	1537.8	1537.8	1536.6	1535.8
27.5°	1587.0	1579.4	1577.7	1573.9	1569.2	1570.0	1567.5	1567.1
30°	1626.8	1620.0	1614.1	1608.6	1603.1	1601.0	1598.0	1597.6
32.5°	1678.9	1671.3	1664.1	1657.3	1649.7	1646.7	1641.6	1639.1
35°	1742.8	1732.7	1724.2	1719.6	1711.9	1708.2	1704.8	1708.6
37.5°	1832.2	1820.0	1815.7	1810.2	1805.1	1799.2	1800.4	1799.2
40°	1955.9	1944.9	1940.6	1930.9	1929.6	1922.9	1927.1	1922.8
42.5°	2108.8	2088.5	2085.5	2077.9	2075.3	2071.5	2073.2	2070.2
45°	2275.2	2257.0	2253.6	2241.4	2241.8	2232.9	2236.3	2236.3
47.5°	2462.4	2443.4	2427.7	2418.8	2415.5	2409.9	2412.9	2412.5
50°	2655.6	2629.8	2612.4	2595.0	2587.4	2589.5	2583.6	2593.8
52.5°	2863.1	2824.6	2800.0	2783.5	2769.1	2772.1	2772.9	2775.9
55°	3077.8	3028.7	2993.1	2971.6	2958.4	2959.2	2963.0	2966.4
57.5°	3293.8	3232.4	3184.2	3152.0	3143.5	3147.3	3147.3	3146.9
60°	3517.9	3444.2	3382.0	3345.5	3337.9	3335.8	3352.3	3346.8
62.5°	3758.5	3670.0	3605.6	3559.0	3548.0	3555.6	3570.4	3567.0
65°	4077.4	3955.0	3872.0	3825.8	3807.2	3814.8	3834.7	3833.8
67.5°	4488.6	4317.6	4207.8	4148.5	4135.0	4144.3	4155.3	4165.9
70°	5103.6	4859.2	4702.6	4574.2	4519.2	4508.5	4519.6	4520.0
71°	5320.1	5039.3	4789.8	4633.1	4542.8	4504.7	4507.7	4488.6
72.5°	5311.2	4965.1	4673.3	4509.4	4384.0	4353.6	4338.7	4315.8
75°	4953.3	4641.5	4388.3	4209.6	4088.8	4052.8	4026.6	4025.3
77.5°	4492.0	4262.1	3982.9	3793.6	3646.7	3586.9	3560.2	3559.4
80°	3611.1	3266.8	3062.6	2948.7	2771.2	2720.0	2665.8	2645.4
82.5°	2183.8	1706.4	1387.5	1233.0	1147.4	944.9	847.9	802.2
85°	508.7	361.3	249.0	163.5	117.8	93.6	72.0	63.6
87.5°	34.3	27.1	24.2	19.5	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)