

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: P148409

Luminaire Tested: **TLM-E06-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148409
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

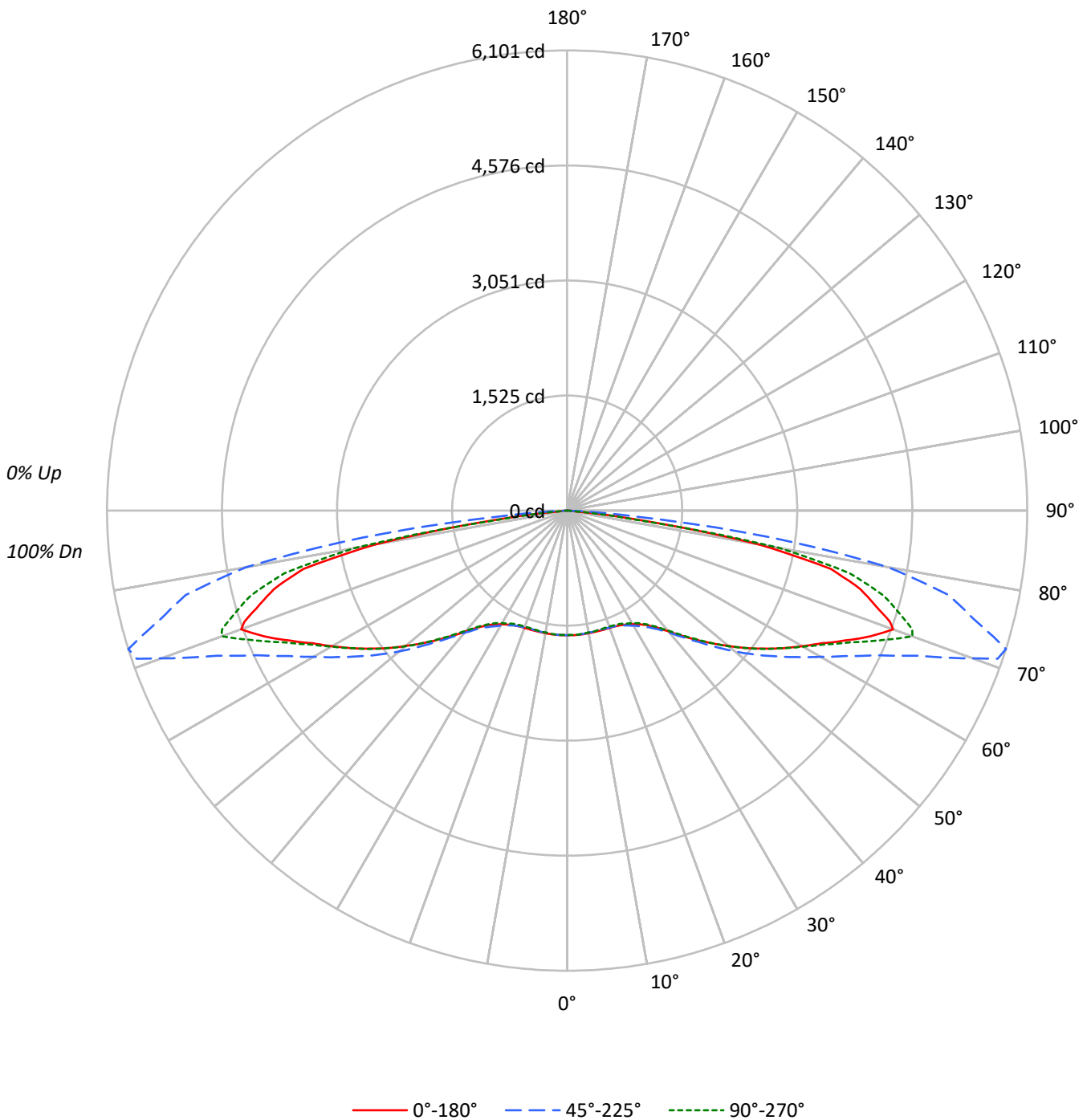
Lumens per Lamp: N/A
Luminaire Lumens: 17428.8 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	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°	17774	17774	17774
5°	17873	17843	17833
10°	18039	17969	17938
15°	18403	18290	18240
20°	18958	18880	18749
25°	19905	19960	19668
30°	21614	21893	21410
35°	24363	24831	24207
40°	29377	29717	29133
45°	36844	37491	36704
50°	46725	48636	46831
55°	59906	63162	60026
60°	77393	83476	77685
65°	103773	115522	105286
70°	144757	180357	153380
75°	167477	232335	180503
80°	159375	267622	176811
85°	12968	108509	8460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	0.9
10°-20°	465.5	2.7
20°-30°	779.6	4.5
30°-40°	1188.5	6.8
40°-50°	1897.7	10.9
50°-60°	2917.9	16.7
60°-70°	4248.4	24.4
70°-80°	4785.8	27.5
80°-90°	988.0	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°	1402.5	8.0
0°-40°	2591.0	14.9
0°-60°	7406.5	42.5
0°-90°	17428.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17428.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1654	1653	1651	1650	1650	158
15°	1651	1647	1641	1634	1637	468
25°	1676	1678	1681	1664	1656	781
35°	1854	1868	1890	1857	1842	1184
45°	2420	2420	2463	2423	2411	1888
55°	3192	3202	3366	3216	3199	2872
65°	4074	4091	4536	4150	4134	4060
75°	4027	4282	5586	4635	4340	4102
85°	105	277	879	222	68	654
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°	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3
2.5°	1654.0	1655.0	1654.5	1653.6	1654.1	1653.6	1652.7	1652.2	1649.0	1650.9	1653.6
5°	1654.1	1653.2	1652.7	1652.2	1652.2	1653.6	1652.2	1650.9	1650.4	1651.4	1650.0
7.5°	1653.2	1651.4	1650.4	1650.0	1650.4	1650.9	1649.5	1647.7	1649.0	1647.7	1645.8
10°	1650.4	1649.1	1649.5	1647.7	1648.1	1647.7	1645.9	1644.5	1645.4	1644.0	1641.8
12.5°	1651.4	1649.0	1648.6	1647.7	1647.2	1646.8	1644.5	1642.2	1642.6	1641.8	1639.4
15°	1651.4	1650.0	1649.6	1647.7	1647.2	1646.4	1643.6	1642.7	1642.6	1641.3	1638.6
17.5°	1652.3	1651.4	1651.4	1649.0	1648.1	1647.7	1644.5	1643.1	1644.5	1641.8	1639.9
20°	1655.0	1654.1	1654.5	1653.2	1651.4	1651.3	1649.0	1648.2	1648.6	1648.2	1643.1
22.5°	1660.5	1660.5	1661.4	1661.0	1660.5	1660.9	1659.1	1659.1	1659.6	1659.6	1655.5
25°	1676.0	1675.5	1676.4	1676.5	1676.9	1680.1	1678.7	1678.3	1680.6	1680.6	1676.4
27.5°	1705.2	1704.3	1705.2	1706.1	1708.4	1712.5	1711.6	1713.0	1716.6	1715.7	1712.1
30°	1739.0	1738.1	1740.4	1743.1	1745.0	1751.4	1748.6	1755.5	1758.7	1761.4	1758.6
32.5°	1788.3	1788.4	1792.4	1794.3	1798.4	1804.8	1805.7	1811.2	1815.3	1819.8	1816.7
35°	1854.1	1853.2	1856.4	1859.6	1864.6	1870.6	1872.8	1880.1	1886.5	1889.7	1883.8
37.5°	1954.6	1949.5	1955.5	1957.3	1961.4	1962.8	1969.2	1978.3	1985.2	1984.2	1980.1
40°	2090.7	2089.7	2087.5	2084.7	2091.1	2093.4	2093.4	2105.7	2116.7	2114.9	2114.4
42.5°	2249.6	2245.5	2242.7	2242.7	2246.4	2247.3	2261.5	2270.6	2278.3	2280.2	2278.4
45°	2420.4	2416.3	2417.2	2415.4	2416.7	2422.7	2430.8	2447.8	2462.4	2462.9	2455.1
47.5°	2604.0	2591.2	2601.2	2587.1	2595.8	2600.3	2620.9	2645.5	2671.1	2675.6	2668.8
50°	2790.3	2788.9	2788.0	2785.2	2789.4	2799.4	2824.5	2863.4	2888.0	2904.4	2893.5
52.5°	2994.0	2987.1	2983.9	2979.4	2983.4	3003.1	3038.2	3072.1	3116.4	3135.1	3120.0
55°	3192.2	3189.9	3178.0	3177.6	3186.2	3216.8	3255.2	3296.7	3344.7	3365.7	3360.2
57.5°	3395.8	3382.6	3378.9	3373.5	3390.8	3419.6	3466.6	3541.5	3591.3	3615.0	3601.3
60°	3595.0	3584.9	3577.1	3575.3	3587.2	3627.4	3695.0	3784.9	3846.6	3877.6	3855.7
62.5°	3808.6	3802.3	3793.2	3782.6	3807.8	3859.4	3943.4	4043.0	4133.8	4172.2	4138.8
65°	4074.4	4061.2	4051.2	4037.9	4058.4	4123.3	4228.8	4369.0	4490.9	4535.7	4512.0
67.5°	4354.8	4342.5	4343.4	4335.2	4371.8	4461.8	4597.8	4788.2	4951.7	5028.0	4983.2
70°	4599.6	4606.5	4608.3	4641.6	4704.7	4841.6	5068.2	5366.4	5614.4	5730.8	5682.9
71°	4527.5	4542.6	4565.8	4600.6	4709.2	4871.3	5180.5	5541.8	5837.6	6034.9	5968.8
72.5°	4322.9	4332.0	4343.9	4396.9	4519.7	4734.4	5052.6	5465.5	5845.9	6101.2	6024.5
75°	4027.0	4035.6	4039.7	4076.8	4188.6	4375.9	4667.2	5033.5	5369.1	5586.5	5565.0
77.5°	3580.4	3581.7	3613.7	3670.7	3796.4	4010.5	4317.4	4697.3	5012.9	5181.9	5074.6
80°	2571.1	2553.7	2586.6	2660.1	2815.4	3061.1	3375.3	3809.1	4159.4	4317.4	4151.2
82.5°	978.2	1031.2	1114.8	1236.2	1288.7	1561.8	1855.0	2109.8	2404.8	2734.6	2651.9
85°	105.0	118.3	148.4	184.0	232.4	321.5	444.4	606.5	747.6	878.6	780.0
87.5°	39.3	40.2	44.8	51.6	52.5	54.8	58.4	68.0	63.5	54.8	44.3
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°	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3	1651.3
2.5°	1651.3	1651.8	1651.3	1651.8	1651.8	1650.0	1650.4	1649.6
5°	1650.9	1649.6	1650.0	1650.4	1650.0	1650.9	1649.5	1650.4
7.5°	1648.6	1645.9	1646.8	1646.8	1645.9	1647.2	1646.3	1645.9
10°	1644.0	1640.4	1642.2	1641.3	1640.8	1641.3	1641.3	1641.2
12.5°	1639.9	1637.6	1638.1	1637.6	1637.2	1638.6	1638.1	1638.6
15°	1639.0	1635.4	1634.9	1634.0	1634.4	1635.4	1635.4	1636.8
17.5°	1638.1	1633.5	1633.1	1632.2	1632.6	1634.4	1634.9	1634.0
20°	1640.8	1637.2	1636.3	1635.4	1634.9	1637.2	1636.7	1636.8
22.5°	1653.6	1649.0	1648.6	1645.0	1643.6	1645.0	1644.0	1644.0
25°	1674.2	1668.7	1666.8	1661.8	1658.2	1658.2	1656.8	1656.0
27.5°	1711.2	1703.0	1701.2	1697.0	1692.0	1692.9	1690.2	1689.7
30°	1754.1	1746.8	1740.4	1734.4	1728.5	1726.2	1723.0	1722.6
32.5°	1810.2	1802.0	1794.3	1787.0	1778.8	1775.6	1770.1	1767.4
35°	1879.2	1868.2	1859.1	1854.1	1845.9	1841.8	1838.1	1842.2
37.5°	1975.6	1962.4	1957.8	1951.8	1946.4	1940.0	1941.3	1940.0
40°	2109.0	2097.1	2092.4	2082.0	2080.6	2073.3	2077.9	2073.3
42.5°	2273.8	2251.8	2248.7	2240.4	2237.7	2233.6	2235.4	2232.2
45°	2453.2	2433.6	2430.0	2416.7	2417.2	2407.6	2411.2	2411.2
47.5°	2655.1	2634.5	2617.7	2608.1	2604.4	2598.5	2601.7	2601.2
50°	2863.4	2835.5	2816.8	2798.0	2789.8	2792.1	2785.7	2796.6
52.5°	3087.1	3045.6	3019.1	3001.3	2985.7	2988.9	2989.8	2993.0
55°	3318.6	3265.7	3227.3	3204.0	3189.9	3190.8	3194.9	3198.6
57.5°	3551.6	3485.3	3433.3	3398.6	3389.4	3393.6	3393.6	3393.1
60°	3793.1	3713.7	3646.6	3607.3	3599.0	3596.8	3614.6	3608.6
62.5°	4052.5	3957.1	3887.7	3837.4	3825.6	3833.8	3849.8	3846.1
65°	4396.4	4264.4	4174.9	4125.2	4105.0	4113.3	4134.8	4133.8
67.5°	4839.8	4655.3	4537.1	4473.1	4458.5	4468.6	4480.4	4491.8
70°	5503.0	5239.4	5070.4	4932.1	4872.7	4861.3	4873.2	4873.6
71°	5736.3	5433.5	5164.5	4995.6	4898.3	4857.2	4860.4	4839.8
72.5°	5726.7	5353.6	5038.9	4862.2	4727.0	4694.2	4678.2	4653.5
75°	5340.8	5004.7	4731.6	4538.9	4408.8	4369.9	4341.6	4340.2
77.5°	4843.5	4595.5	4294.6	4090.4	3932.0	3867.6	3838.8	3837.9
80°	3893.6	3522.3	3302.2	3179.4	2988.0	2932.8	2874.3	2852.4
82.5°	2354.6	1840.0	1496.1	1329.4	1237.1	1018.8	914.2	865.0
85°	548.4	389.5	268.5	176.3	127.0	100.9	77.6	68.5
87.5°	37.0	29.2	26.0	21.0	16.0	15.5	9.6	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)