

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: P148411

Luminaire Tested: **TLM-E06-LED-E1-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148411
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-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

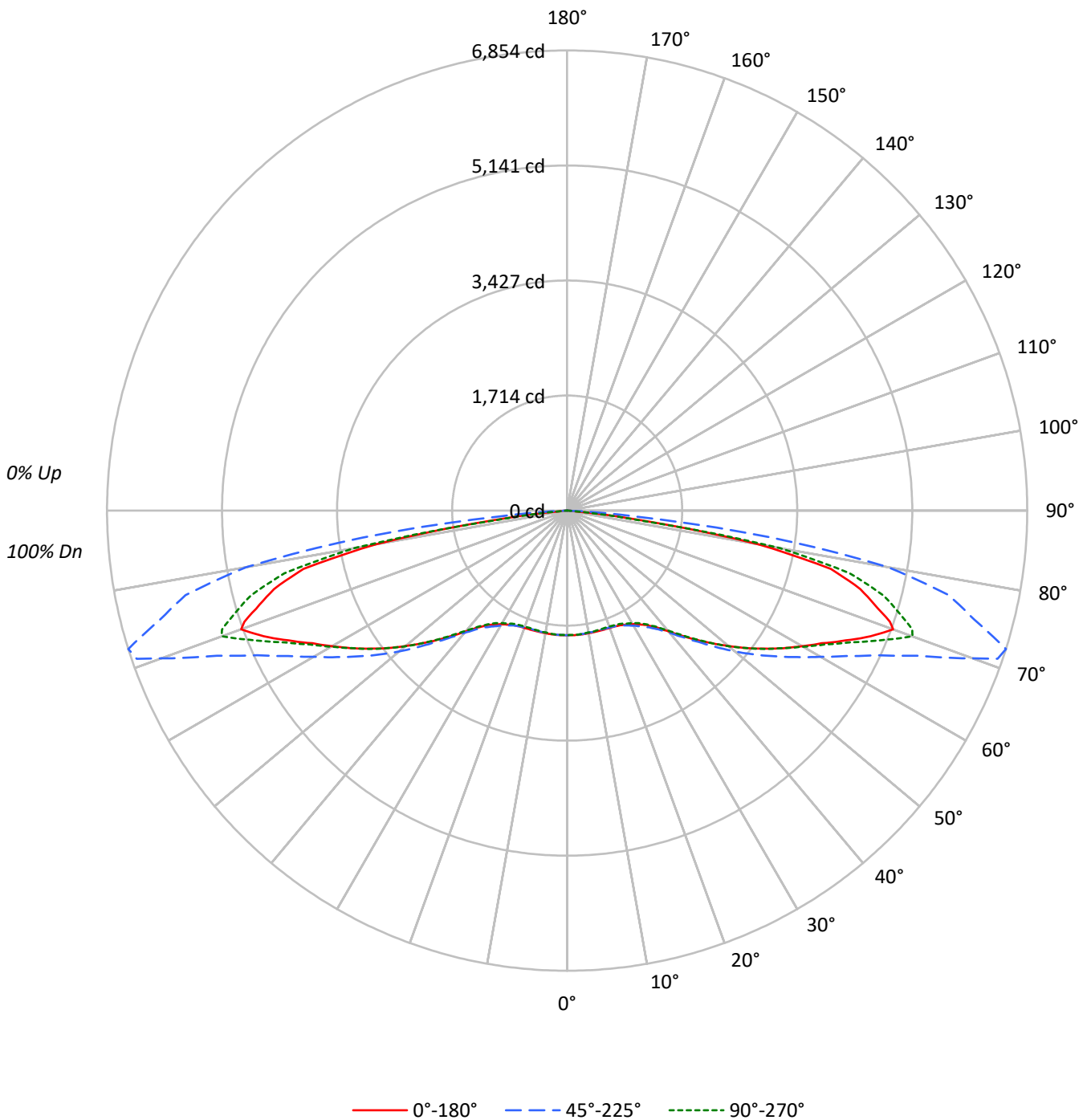
Lumens per Lamp: N/A
Luminaire Lumens: 19580.4 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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°	19969	19969	19969
5°	20078	20045	20035
10°	20266	20188	20154
15°	20674	20548	20491
20°	21298	21210	21063
25°	22364	22423	22094
30°	24283	24595	24053
35°	27371	27897	27195
40°	33004	33384	32730
45°	41393	42119	41238
50°	52494	54641	52613
55°	67300	70959	67435
60°	86947	93782	87278
65°	116587	129785	118286
70°	162626	202623	172316
75°	188151	261018	202786
80°	179049	300661	198637
85°	14573	121909	9510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	0.9
10°-20°	523.0	2.7
20°-30°	875.8	4.5
30°-40°	1335.2	6.8
40°-50°	2132.0	10.9
50°-60°	3278.1	16.7
60°-70°	4772.9	24.4
70°-80°	5376.7	27.5
80°-90°	1109.9	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°	1575.6	8.0
0°-40°	2910.8	14.9
0°-60°	8320.9	42.5
0°-90°	19580.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19580.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1858	1857	1855	1854	1854	177
15°	1855	1850	1844	1836	1839	526
25°	1883	1886	1888	1870	1860	877
35°	2083	2098	2123	2086	2070	1330
45°	2719	2718	2767	2722	2709	2121
55°	3586	3597	3781	3613	3593	3227
65°	4578	4596	5096	4662	4644	4561
75°	4524	4811	6276	5208	4876	4608
85°	118	311	987	250	77	734
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°	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2
2.5°	1858.3	1859.3	1858.8	1857.8	1858.3	1857.8	1856.8	1856.2	1852.6	1854.7	1857.8
5°	1858.2	1857.2	1856.7	1856.2	1856.2	1857.8	1856.2	1854.7	1854.2	1855.2	1853.7
7.5°	1857.2	1855.2	1854.2	1853.7	1854.2	1854.7	1853.1	1851.1	1852.6	1851.1	1849.0
10°	1854.2	1852.6	1853.2	1851.1	1851.6	1851.1	1849.0	1847.5	1848.5	1847.0	1844.4
12.5°	1855.2	1852.6	1852.2	1851.1	1850.6	1850.1	1847.5	1845.0	1845.4	1844.4	1841.9
15°	1855.2	1853.6	1853.2	1851.1	1850.6	1849.6	1846.5	1845.4	1845.4	1843.9	1840.8
17.5°	1856.2	1855.2	1855.2	1852.6	1851.6	1851.1	1847.5	1846.0	1847.5	1844.4	1842.4
20°	1859.3	1858.3	1858.8	1857.2	1855.2	1855.2	1852.6	1851.6	1852.1	1851.6	1846.0
22.5°	1865.4	1865.4	1866.5	1866.0	1865.4	1866.0	1863.9	1863.9	1864.4	1864.4	1859.8
25°	1883.0	1882.4	1883.4	1883.4	1884.0	1887.5	1886.0	1885.5	1888.0	1888.0	1883.4
27.5°	1915.7	1914.7	1915.8	1916.8	1919.4	1924.0	1922.9	1924.4	1928.6	1927.5	1923.4
30°	1953.7	1952.7	1955.2	1958.4	1960.4	1967.6	1964.5	1972.2	1975.8	1978.8	1975.8
32.5°	2009.2	2009.1	2013.7	2015.8	2020.4	2027.6	2028.6	2034.8	2039.4	2044.5	2040.9
35°	2083.0	2082.0	2085.6	2089.2	2094.8	2101.5	2104.0	2112.2	2119.4	2123.0	2116.3
37.5°	2195.9	2190.2	2196.9	2199.0	2203.6	2205.1	2212.3	2222.5	2230.2	2229.2	2224.6
40°	2348.8	2347.7	2345.2	2342.0	2349.3	2351.8	2351.8	2365.7	2378.0	2375.9	2375.4
42.5°	2527.3	2522.7	2519.6	2519.6	2523.7	2524.8	2540.6	2550.9	2559.6	2561.7	2559.6
45°	2719.2	2714.6	2715.6	2713.5	2715.0	2721.8	2731.0	2750.0	2766.4	2766.9	2758.2
47.5°	2925.4	2911.0	2922.3	2906.4	2916.2	2921.3	2944.4	2972.1	3000.8	3006.0	2998.3
50°	3134.8	3133.2	3132.2	3129.1	3133.7	3145.0	3173.2	3216.9	3244.6	3263.0	3250.7
52.5°	3363.6	3355.9	3352.3	3347.2	3351.8	3373.8	3413.3	3451.3	3501.1	3522.1	3505.2
55°	3586.2	3583.7	3570.3	3569.8	3579.6	3614.0	3657.0	3703.8	3757.6	3781.2	3775.0
57.5°	3815.0	3800.2	3796.0	3789.9	3809.4	3841.7	3894.6	3978.7	4034.6	4061.3	4046.0
60°	4038.8	4027.4	4018.7	4016.7	4030.0	4075.2	4151.1	4252.2	4321.4	4356.3	4331.7
62.5°	4278.9	4271.7	4261.4	4249.6	4277.8	4335.8	4430.2	4542.0	4644.2	4687.2	4649.8
65°	4577.5	4562.6	4551.3	4536.4	4559.5	4632.3	4750.9	4908.4	5045.4	5095.7	5069.0
67.5°	4892.5	4878.6	4879.6	4870.4	4911.4	5012.5	5165.4	5379.4	5563.0	5648.7	5598.4
70°	5167.4	5175.2	5177.2	5214.6	5285.5	5439.4	5693.8	6028.9	6307.5	6438.3	6384.4
71°	5086.4	5103.3	5129.5	5168.5	5290.6	5472.8	5820.0	6225.9	6558.4	6780.0	6705.6
72.5°	4856.6	4866.8	4880.2	4939.7	5077.7	5318.8	5676.4	6140.2	6567.6	6854.4	6768.2
75°	4524.1	4533.8	4538.5	4580.0	4705.7	4916.0	5243.4	5654.9	6032.0	6276.2	6252.0
77.5°	4022.4	4023.8	4059.8	4123.9	4265.0	4505.6	4850.4	5277.2	5631.8	5821.6	5701.0
80°	2888.5	2869.0	2905.9	2988.5	3163.0	3439.0	3792.0	4279.4	4672.9	4850.4	4663.6
82.5°	1099.0	1158.5	1252.4	1388.9	1447.8	1754.6	2084.0	2370.3	2701.7	3072.2	2979.3
85°	118.0	132.9	166.7	206.8	261.2	361.2	499.2	681.3	839.8	987.1	876.3
87.5°	44.2	45.2	50.3	58.0	59.0	61.6	65.7	76.4	71.3	61.6	49.8
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°	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2
2.5°	1855.2	1855.7	1855.2	1855.7	1855.7	1853.7	1854.2	1853.2
5°	1854.7	1853.2	1853.7	1854.2	1853.7	1854.7	1853.2	1854.2
7.5°	1852.1	1849.0	1850.1	1850.1	1849.0	1850.6	1849.6	1849.0
10°	1847.0	1842.9	1845.0	1843.9	1843.4	1843.9	1843.9	1843.9
12.5°	1842.4	1839.8	1840.3	1839.8	1839.3	1840.8	1840.3	1840.8
15°	1841.4	1837.2	1836.7	1835.7	1836.2	1837.2	1837.2	1838.8
17.5°	1840.3	1835.2	1834.7	1833.6	1834.2	1836.2	1836.7	1835.7
20°	1843.4	1839.3	1838.3	1837.2	1836.7	1839.3	1838.8	1838.8
22.5°	1857.8	1852.6	1852.1	1848.0	1846.5	1848.0	1847.0	1847.0
25°	1880.9	1874.7	1872.6	1867.0	1862.9	1862.9	1861.4	1860.3
27.5°	1922.4	1913.2	1911.1	1906.5	1900.8	1901.9	1898.8	1898.3
30°	1970.6	1962.4	1955.2	1948.6	1941.9	1939.4	1935.8	1935.2
32.5°	2033.7	2024.5	2015.8	2007.6	1998.3	1994.8	1988.6	1985.5
35°	2111.2	2098.9	2088.6	2083.0	2073.8	2069.2	2065.1	2069.6
37.5°	2219.5	2204.6	2199.4	2192.8	2186.6	2179.4	2181.0	2179.4
40°	2369.2	2355.9	2350.8	2339.0	2337.4	2329.2	2334.4	2329.3
42.5°	2554.5	2529.9	2526.3	2517.0	2513.9	2509.4	2511.4	2507.8
45°	2756.1	2734.1	2730.0	2715.0	2715.6	2704.8	2708.9	2709.0
47.5°	2982.9	2959.8	2940.8	2930.0	2926.0	2919.3	2922.9	2922.4
50°	3216.8	3185.5	3164.5	3143.5	3134.2	3136.8	3129.6	3141.9
52.5°	3468.2	3421.6	3391.8	3371.8	3354.4	3357.9	3359.0	3362.5
55°	3728.3	3668.8	3625.7	3599.6	3583.6	3584.7	3589.4	3593.4
57.5°	3990.0	3915.6	3857.2	3818.1	3807.9	3812.5	3812.5	3812.0
60°	4261.4	4172.2	4096.7	4052.6	4043.4	4040.8	4060.8	4054.2
62.5°	4552.8	4445.6	4367.6	4311.2	4297.8	4307.1	4325.0	4320.9
65°	4939.1	4790.9	4690.4	4634.4	4611.8	4621.0	4645.2	4644.2
67.5°	5437.4	5230.1	5097.2	5025.4	5008.9	5020.2	5033.6	5046.4
70°	6182.3	5886.2	5696.4	5541.0	5474.3	5461.4	5474.8	5475.3
71°	6444.5	6104.3	5802.1	5612.3	5503.0	5456.8	5460.4	5437.4
72.5°	6433.7	6014.5	5661.0	5462.5	5310.6	5273.7	5255.7	5228.0
75°	6000.2	5622.6	5315.8	5099.2	4953.0	4909.4	4877.6	4876.0
77.5°	5441.4	5162.8	4824.7	4595.4	4417.4	4345.0	4312.7	4311.7
80°	4374.3	3957.2	3709.9	3571.8	3356.9	3294.8	3229.1	3204.5
82.5°	2645.3	2067.1	1680.8	1493.5	1389.9	1144.6	1027.2	971.8
85°	616.2	437.6	301.7	198.0	142.6	113.4	87.2	77.0
87.5°	41.6	32.8	29.2	23.6	18.0	17.4	10.8	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)