

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: P147892

Luminaire Tested: **TLM-E06-LED-E1-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147892
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
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-E1-5WQ-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (126) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

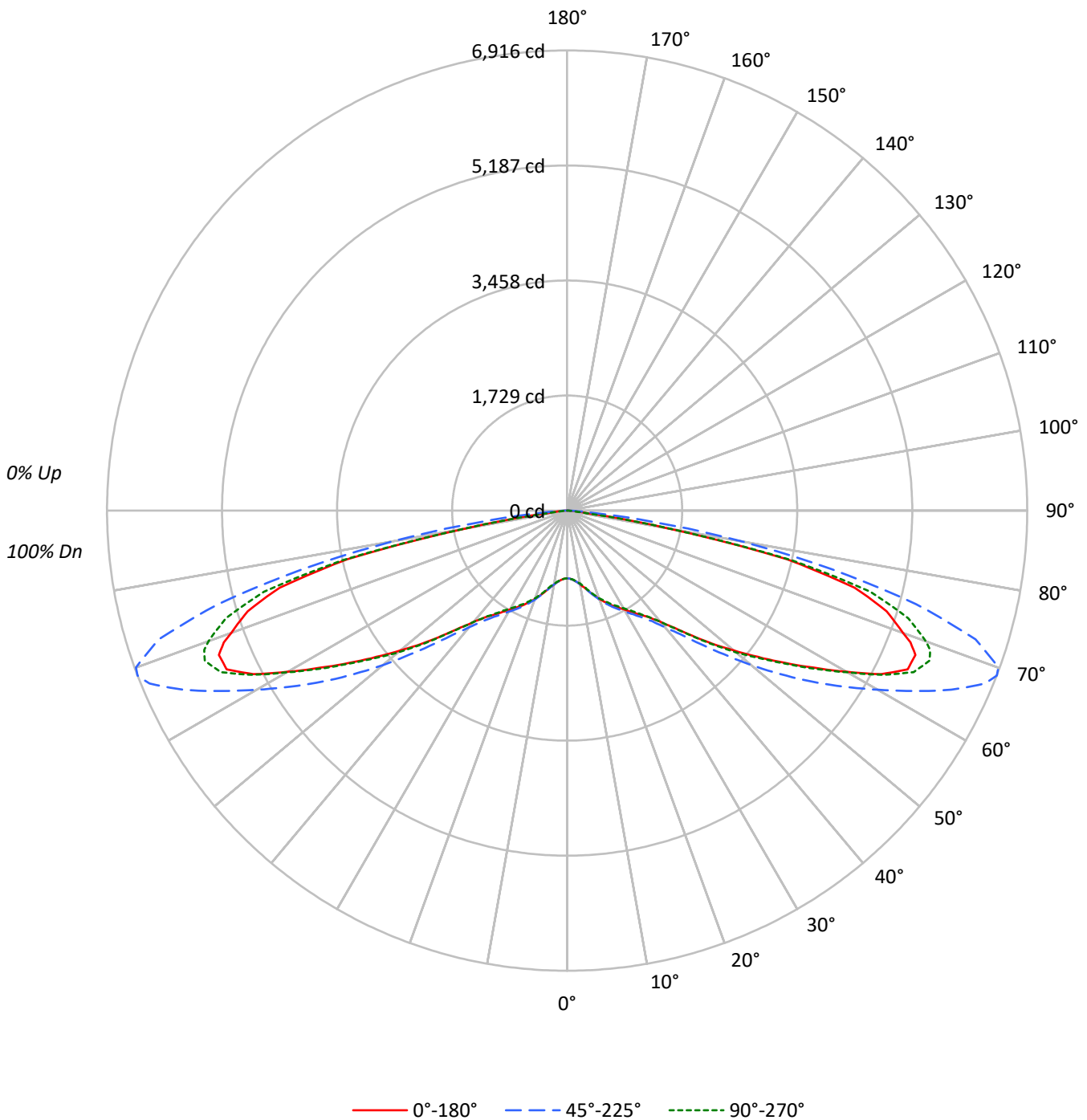
Lumens per Lamp: N/A
Luminaire Lumens: 19601.5 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10957	10957	10957
5°	11309	11309	11264
10°	12315	12292	12180
15°	13973	14042	13836
20°	16173	16314	16032
25°	18621	18914	18353
30°	21323	21808	21069
35°	25080	25754	24863
40°	30653	32066	30653
45°	40487	43112	40642
50°	54745	60415	55500
55°	74829	84073	75253
60°	104264	115927	104662
65°	143791	162295	146300
70°	168958	217075	180455
75°	185888	225660	196215
80°	94009	164482	96805
85°	12165	44609	9374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	0.5
10°-20°	360.9	1.8
20°-30°	730.8	3.7
30°-40°	1225.3	6.3
40°-50°	2161.3	11.0
50°-60°	3811.4	19.4
60°-70°	5818.9	29.7
70°-80°	4862.3	24.8
80°-90°	528.3	2.7
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°	1194.0	6.1
0°-40°	2419.3	12.3
0°-60°	8391.9	42.8
0°-90°	19601.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19601.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1047	1049	1047	1044	1042	102
15°	1254	1260	1260	1249	1242	361
25°	1568	1576	1592	1565	1545	728
35°	1909	1921	1960	1918	1892	1212
45°	2660	2720	2832	2745	2670	2090
55°	3987	4176	4480	4210	4010	3613
65°	5646	5950	6372	5998	5744	5404
75°	4470	4721	5426	5023	4718	4304
85°	98	164	361	143	76	324
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°	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9
2.5°	1026.1	1028.2	1026.1	1026.1	1026.1	1026.1	1026.1	1024.1	1024.1	1024.1	1026.1
5°	1046.6	1048.7	1046.6	1048.7	1048.7	1048.7	1048.7	1046.6	1046.6	1046.6	1046.6
7.5°	1079.5	1079.5	1079.5	1081.5	1079.5	1079.5	1081.5	1079.5	1079.5	1079.5	1079.5
10°	1126.7	1124.6	1124.6	1124.6	1124.6	1124.6	1126.7	1126.7	1126.7	1124.6	1124.6
12.5°	1184.1	1182.1	1184.1	1184.1	1186.2	1186.2	1186.2	1186.2	1186.2	1186.2	1184.1
15°	1253.9	1253.9	1253.9	1256.0	1260.1	1260.1	1258.0	1260.1	1260.1	1260.1	1260.1
17.5°	1331.9	1336.0	1331.9	1333.9	1336.0	1333.9	1338.0	1340.1	1342.1	1340.1	1333.9
20°	1411.9	1414.0	1414.0	1414.0	1414.0	1418.1	1420.1	1420.1	1426.3	1424.2	1422.2
22.5°	1487.9	1492.0	1492.0	1494.0	1494.0	1500.2	1500.2	1500.2	1504.3	1508.4	1504.3
25°	1567.9	1565.8	1565.8	1569.9	1572.0	1580.2	1580.2	1584.3	1590.5	1592.5	1588.4
27.5°	1639.7	1637.7	1637.7	1643.8	1645.9	1656.1	1656.1	1664.3	1668.4	1670.5	1666.4
30°	1715.6	1715.6	1713.6	1719.8	1725.9	1734.1	1738.2	1746.4	1752.6	1754.6	1750.5
32.5°	1805.9	1801.8	1803.9	1808.0	1812.1	1820.3	1826.5	1836.7	1844.9	1847.0	1842.9
35°	1908.6	1902.4	1904.5	1908.6	1914.7	1927.0	1937.3	1943.4	1955.8	1959.9	1951.7
37.5°	2021.4	2023.5	2021.4	2031.7	2041.9	2056.3	2068.6	2076.8	2089.2	2095.3	2089.2
40°	2181.5	2175.3	2181.5	2191.8	2208.2	2226.6	2251.3	2257.4	2269.7	2282.1	2267.7
42.5°	2388.8	2384.7	2399.0	2407.2	2425.7	2446.2	2477.0	2493.4	2511.9	2520.1	2507.8
45°	2659.7	2659.7	2676.1	2678.1	2706.9	2733.5	2776.6	2797.2	2832.1	2832.1	2832.1
47.5°	2959.3	2971.6	2981.9	3002.4	3022.9	3072.2	3115.3	3160.4	3193.2	3197.3	3191.2
50°	3269.2	3281.5	3312.3	3341.0	3386.1	3447.7	3494.9	3554.4	3583.2	3607.8	3599.6
52.5°	3611.9	3613.9	3650.9	3687.8	3753.5	3821.2	3897.1	3958.7	4010.0	4032.6	4014.1
55°	3987.4	3991.6	4024.4	4063.4	4137.3	4215.2	4309.6	4373.3	4438.9	4480.0	4449.2
57.5°	4393.8	4395.8	4428.7	4475.9	4564.1	4642.1	4732.4	4822.7	4884.3	4921.2	4900.7
60°	4843.2	4853.5	4878.1	4937.6	5021.8	5103.8	5194.1	5274.2	5346.0	5385.0	5364.5
62.5°	5323.4	5333.7	5368.6	5415.8	5489.7	5580.0	5666.2	5768.8	5828.3	5871.4	5840.6
65°	5645.6	5664.1	5719.5	5783.1	5891.9	6008.9	6109.4	6249.0	6320.8	6372.1	6343.4
67.5°	5666.2	5676.4	5744.1	5840.6	5986.3	6162.8	6368.0	6585.5	6727.1	6794.9	6745.6
69°	5526.6	5541.0	5606.6	5715.4	5877.5	6082.8	6327.0	6597.9	6815.4	6916.0	6868.7
70°	5368.6	5399.4	5471.2	5590.2	5748.2	5963.7	6216.1	6505.5	6760.0	6897.5	6862.6
72.5°	5036.1	5044.3	5091.5	5185.9	5307.0	5485.6	5723.6	5996.6	6238.7	6435.7	6464.5
75°	4469.7	4496.4	4531.3	4594.9	4656.5	4785.8	4945.8	5132.6	5274.2	5426.0	5432.2
77.5°	3377.9	3458.0	3484.7	3499.0	3525.7	3628.3	3767.9	3930.0	4047.0	4071.6	4067.5
80°	1516.6	1623.3	1647.9	1764.9	1836.7	2007.1	2220.5	2468.8	2635.0	2653.5	2608.4
82.5°	297.6	318.1	371.5	463.8	632.1	732.6	872.2	1046.6	1206.7	1299.0	1243.6
85°	98.5	104.7	121.1	133.4	153.9	174.4	211.4	262.7	326.3	361.2	322.2
87.5°	39.0	39.0	45.1	49.3	53.4	53.4	53.4	49.3	47.2	39.0	34.9
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°	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9
2.5°	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1	1024.1
5°	1046.6	1044.6	1044.6	1042.5	1042.5	1042.5	1042.5	1042.5
7.5°	1077.4	1075.4	1073.3	1075.4	1073.3	1073.3	1073.3	1073.3
10°	1124.6	1120.5	1118.5	1116.4	1116.4	1116.4	1114.4	1114.4
12.5°	1180.0	1180.0	1178.0	1175.9	1171.8	1173.9	1171.8	1167.7
15°	1256.0	1251.8	1249.8	1247.7	1243.6	1243.6	1243.6	1241.6
17.5°	1331.9	1327.8	1327.8	1321.6	1319.6	1319.6	1319.6	1321.6
20°	1416.0	1409.9	1405.8	1401.7	1397.6	1399.6	1395.5	1399.6
22.5°	1500.2	1492.0	1487.9	1481.7	1475.5	1475.5	1473.5	1469.4
25°	1582.3	1572.0	1567.9	1561.7	1553.5	1553.5	1549.4	1545.3
27.5°	1660.2	1650.0	1645.9	1633.6	1625.4	1623.3	1619.2	1617.1
30°	1746.4	1734.1	1728.0	1715.6	1703.3	1701.3	1695.1	1695.1
32.5°	1836.7	1824.4	1820.3	1801.8	1791.6	1791.6	1787.5	1783.4
35°	1949.6	1931.1	1927.0	1908.6	1894.2	1894.2	1890.1	1892.1
37.5°	2083.0	2068.6	2054.3	2039.9	2023.5	2021.4	2017.3	2013.2
40°	2261.5	2245.1	2228.7	2208.2	2193.8	2189.7	2183.6	2181.5
42.5°	2499.6	2483.2	2450.3	2433.9	2419.6	2407.2	2405.2	2403.1
45°	2803.3	2782.8	2760.2	2729.4	2711.0	2684.3	2680.2	2669.9
47.5°	3168.6	3129.6	3090.6	3064.0	3035.2	3004.4	2998.3	2981.9
50°	3556.5	3525.7	3460.0	3416.9	3371.8	3341.0	3320.5	3314.3
52.5°	3973.1	3915.6	3849.9	3792.5	3726.8	3685.8	3648.8	3638.6
55°	4408.1	4326.1	4244.0	4176.2	4110.6	4061.3	4026.4	4010.0
57.5°	4843.2	4752.9	4662.6	4588.7	4533.3	4469.7	4434.8	4426.6
60°	5296.8	5210.6	5118.2	5044.3	4976.6	4921.2	4900.7	4861.7
62.5°	5777.0	5686.7	5600.5	5528.7	5442.5	5403.5	5368.6	5346.0
65°	6249.0	6144.3	6035.6	5959.6	5873.4	5818.0	5774.9	5744.1
67.5°	6614.3	6456.3	6310.5	6183.3	6066.3	5980.1	5924.7	5896.0
69°	6716.9	6519.9	6333.1	6166.9	6029.4	5932.9	5871.4	5842.6
70°	6704.6	6487.0	6281.8	6099.2	5949.4	5846.7	5787.2	5733.9
72.5°	6324.9	6125.8	5898.1	5699.0	5563.5	5465.0	5405.5	5376.8
75°	5397.3	5263.9	5099.7	4945.8	4847.3	4789.9	4716.0	4718.0
77.5°	3930.0	3934.1	3823.3	3665.2	3554.4	3533.9	3501.1	3468.2
80°	2438.0	2243.1	2115.8	1945.5	1820.3	1711.5	1664.3	1561.7
82.5°	1124.6	878.3	681.3	515.1	396.1	309.9	270.9	221.6
85°	250.4	190.9	158.0	127.2	108.8	100.6	82.1	75.9
87.5°	34.9	30.8	28.7	26.7	22.6	16.4	12.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)