

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: P147896

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147896  
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-F06-LED-E1-5WQ-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

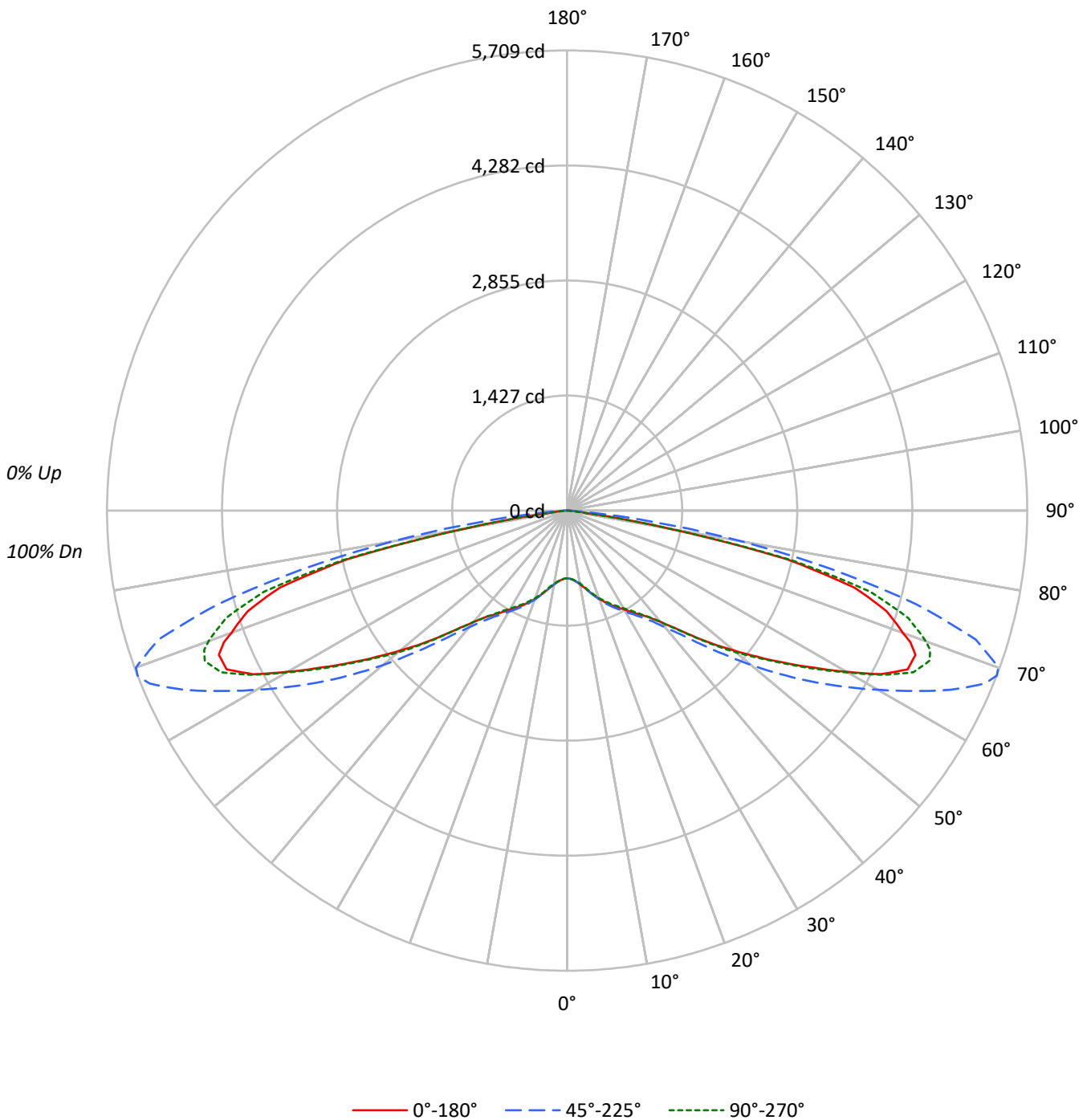
Lumens per Lamp: N/A  
Luminaire Lumens: 16181.5 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	9045	9045	9045
5°	9336	9336	9299
10°	10166	10147	10054
15°	11535	11592	11422
20°	13352	13467	13235
25°	15372	15614	15151
30°	17603	18004	17393
35°	20704	21260	20525
40°	25305	26471	25305
45°	33422	35589	33552
50°	45193	49874	45818
55°	61773	69403	62124
60°	86073	95702	86400
65°	118704	133978	120774
70°	139479	179199	148971
75°	153458	186288	161983
80°	77608	135782	79914
85°	10041	36828	7744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.4	0.5
10°-20°	297.9	1.8
20°-30°	603.3	3.7
30°-40°	1011.5	6.3
40°-50°	1784.2	11.0
50°-60°	3146.4	19.4
60°-70°	4803.6	29.7
70°-80°	4014.0	24.8
80°-90°	436.2	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°	985.6	6.1
0°-40°	1997.2	12.3
0°-60°	6927.7	42.8
0°-90°	16181.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16181.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	864	866	864	861	861	85
15°	1035	1040	1040	1031	1025	298
25°	1294	1301	1315	1292	1276	601
35°	1576	1586	1618	1583	1562	1001
45°	2196	2246	2338	2266	2204	1725
55°	3292	3448	3698	3476	3310	2983
65°	4661	4912	5260	4951	4742	4461
75°	3690	3897	4479	4146	3895	3553
85°	81	136	298	118	63	267
90°	0	0	0	0	0	



TEST NUMBER: P147896

CATALOG NUMBER: TLM-F06-LED-E1-5WQ-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	840.3	840.3	840.3	840.3	840.3	840.3	840.3	840.3	840.3	840.3	840.3
2.5°	847.1	848.8	847.1	847.1	847.1	847.1	847.1	845.4	845.4	845.4	847.1
5°	864.0	865.7	864.0	865.7	865.7	865.7	865.7	864.0	864.0	864.0	864.0
7.5°	891.1	891.1	891.1	892.8	891.1	891.1	892.8	891.1	891.1	891.1	891.1
10°	930.1	928.4	928.4	928.4	928.4	928.4	930.1	930.1	930.1	928.4	928.4
12.5°	977.5	975.8	977.5	977.5	979.2	979.2	979.2	979.2	979.2	979.2	977.5
15°	1035.1	1035.1	1035.1	1036.8	1040.2	1040.2	1038.5	1040.2	1040.2	1040.2	1040.2
17.5°	1099.5	1102.9	1099.5	1101.2	1102.9	1101.2	1104.6	1106.3	1108.0	1106.3	1101.2
20°	1165.6	1167.3	1167.3	1167.3	1167.3	1170.7	1172.4	1172.4	1177.4	1175.7	1174.0
22.5°	1228.3	1231.6	1231.6	1233.3	1233.3	1238.4	1238.4	1238.4	1241.8	1245.2	1241.8
25°	1294.3	1292.6	1292.6	1296.0	1297.7	1304.5	1304.5	1307.9	1313.0	1314.7	1311.3
27.5°	1353.6	1351.9	1351.9	1357.0	1358.7	1367.2	1367.2	1374.0	1377.3	1379.0	1375.7
30°	1416.3	1416.3	1414.6	1419.7	1424.8	1431.6	1434.9	1441.7	1446.8	1448.5	1445.1
32.5°	1490.9	1487.5	1489.2	1492.5	1495.9	1502.7	1507.8	1516.3	1523.0	1524.7	1521.3
35°	1575.6	1570.5	1572.2	1575.6	1580.6	1590.8	1599.3	1604.4	1614.5	1617.9	1611.1
37.5°	1668.7	1670.4	1668.7	1677.2	1685.7	1697.5	1707.7	1714.5	1724.6	1729.7	1724.6
40°	1800.9	1795.8	1800.9	1809.4	1822.9	1838.2	1858.5	1863.6	1873.7	1883.9	1872.0
42.5°	1972.0	1968.6	1980.5	1987.2	2002.5	2019.4	2044.8	2058.4	2073.6	2080.4	2070.3
45°	2195.6	2195.6	2209.2	2210.9	2234.6	2256.6	2292.2	2309.1	2337.9	2337.9	2337.9
47.5°	2443.0	2453.1	2461.6	2478.5	2495.5	2536.1	2571.7	2609.0	2636.1	2639.5	2634.4
50°	2698.8	2708.9	2734.4	2758.1	2795.3	2846.2	2885.1	2934.3	2958.0	2978.3	2971.5
52.5°	2981.7	2983.4	3013.9	3044.4	3098.6	3154.5	3217.2	3268.0	3310.4	3329.0	3313.8
55°	3291.7	3295.1	3322.2	3354.4	3415.4	3479.8	3557.7	3610.2	3664.4	3698.3	3672.9
57.5°	3627.2	3628.9	3656.0	3694.9	3767.8	3832.2	3906.7	3981.3	4032.1	4062.6	4045.6
60°	3998.2	4006.7	4027.0	4076.1	4145.6	4213.4	4287.9	4354.0	4413.3	4445.5	4428.5
62.5°	4394.6	4403.1	4431.9	4470.9	4531.9	4606.4	4677.6	4762.3	4811.4	4847.0	4821.6
65°	4660.6	4675.9	4721.6	4774.1	4863.9	4960.5	5043.5	5158.7	5218.0	5260.3	5236.6
67.5°	4677.6	4686.0	4741.9	4821.6	4941.8	5087.5	5257.0	5436.5	5553.4	5609.3	5568.7
69°	4562.3	4574.2	4628.4	4718.2	4852.0	5021.5	5223.1	5446.7	5626.3	5709.3	5670.3
70°	4431.9	4457.3	4516.6	4614.9	4745.3	4923.2	5131.6	5370.5	5580.5	5694.0	5665.2
72.5°	4157.4	4164.2	4203.2	4281.1	4381.1	4528.5	4725.0	4950.3	5150.2	5312.9	5336.6
75°	3689.9	3711.9	3740.7	3793.2	3844.0	3950.8	4082.9	4237.1	4354.0	4479.3	4484.4
77.5°	2788.6	2854.6	2876.7	2888.5	2910.6	2995.3	3110.5	3244.3	3340.9	3361.2	3357.8
80°	1252.0	1340.1	1360.4	1457.0	1516.3	1656.9	1833.1	2038.1	2175.3	2190.5	2153.3
82.5°	245.7	262.6	306.6	382.9	521.8	604.8	720.0	864.0	996.2	1072.4	1026.7
85°	81.3	86.4	100.0	110.1	127.1	144.0	174.5	216.9	269.4	298.2	266.0
87.5°	32.2	32.2	37.3	40.7	44.0	44.0	44.0	40.7	39.0	32.2	28.8
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°	840.3	840.3	840.3	840.3	840.3	840.3	840.3	840.3
2.5°	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4
5°	864.0	862.3	862.3	860.6	860.6	860.6	860.6	860.6
7.5°	889.4	887.7	886.0	887.7	886.0	886.0	886.0	886.0
10°	928.4	925.0	923.3	921.6	921.6	921.6	919.9	919.9
12.5°	974.1	974.1	972.4	970.7	967.4	969.1	967.4	964.0
15°	1036.8	1033.4	1031.7	1030.0	1026.7	1026.7	1026.7	1025.0
17.5°	1099.5	1096.1	1096.1	1091.0	1089.3	1089.3	1089.3	1091.0
20°	1169.0	1163.9	1160.5	1157.1	1153.7	1155.4	1152.0	1155.4
22.5°	1238.4	1231.6	1228.3	1223.2	1218.1	1218.1	1216.4	1213.0
25°	1306.2	1297.7	1294.3	1289.2	1282.5	1282.5	1279.1	1275.7
27.5°	1370.6	1362.1	1358.7	1348.5	1341.8	1340.1	1336.7	1335.0
30°	1441.7	1431.6	1426.5	1416.3	1406.1	1404.5	1399.4	1399.4
32.5°	1516.3	1506.1	1502.7	1487.5	1479.0	1479.0	1475.6	1472.2
35°	1609.4	1594.2	1590.8	1575.6	1563.7	1563.7	1560.3	1562.0
37.5°	1719.6	1707.7	1695.8	1684.0	1670.4	1668.7	1665.4	1662.0
40°	1867.0	1853.4	1839.8	1822.9	1811.0	1807.7	1802.6	1800.9
42.5°	2063.5	2049.9	2022.8	2009.3	1997.4	1987.2	1985.5	1983.9
45°	2314.2	2297.3	2278.6	2253.2	2238.0	2215.9	2212.6	2204.1
47.5°	2615.8	2583.6	2551.4	2529.4	2505.6	2480.2	2475.2	2461.6
50°	2936.0	2910.6	2856.3	2820.8	2783.5	2758.1	2741.1	2736.1
52.5°	3279.9	3232.4	3178.2	3130.8	3076.6	3042.7	3012.2	3003.7
55°	3639.0	3571.3	3503.5	3447.6	3393.4	3352.7	3323.9	3310.4
57.5°	3998.2	3923.7	3849.1	3788.1	3742.4	3689.9	3661.1	3654.3
60°	4372.6	4301.4	4225.2	4164.2	4108.3	4062.6	4045.6	4013.4
62.5°	4769.0	4694.5	4623.3	4564.0	4492.9	4460.7	4431.9	4413.3
65°	5158.7	5072.3	4982.5	4919.8	4848.7	4802.9	4767.3	4741.9
67.5°	5460.2	5329.8	5209.5	5104.5	5007.9	4936.8	4891.0	4867.3
69°	5545.0	5382.3	5228.2	5090.9	4977.4	4897.8	4847.0	4823.2
70°	5534.8	5355.2	5185.8	5035.0	4911.3	4826.6	4777.5	4733.5
72.5°	5221.4	5057.0	4869.0	4704.7	4592.8	4511.5	4462.4	4438.7
75°	4455.6	4345.5	4210.0	4082.9	4001.6	3954.1	3893.2	3894.9
77.5°	3244.3	3247.7	3156.2	3025.8	2934.3	2917.3	2890.2	2863.1
80°	2012.7	1851.7	1746.7	1606.1	1502.7	1412.9	1374.0	1289.2
82.5°	928.4	725.1	562.5	425.2	327.0	255.8	223.6	183.0
85°	206.7	157.6	130.4	105.0	89.8	83.0	67.8	62.7
87.5°	28.8	25.4	23.7	22.0	18.6	13.6	10.2	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)