

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: P147894

Luminaire Tested: **TLM-F06-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147894  
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-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

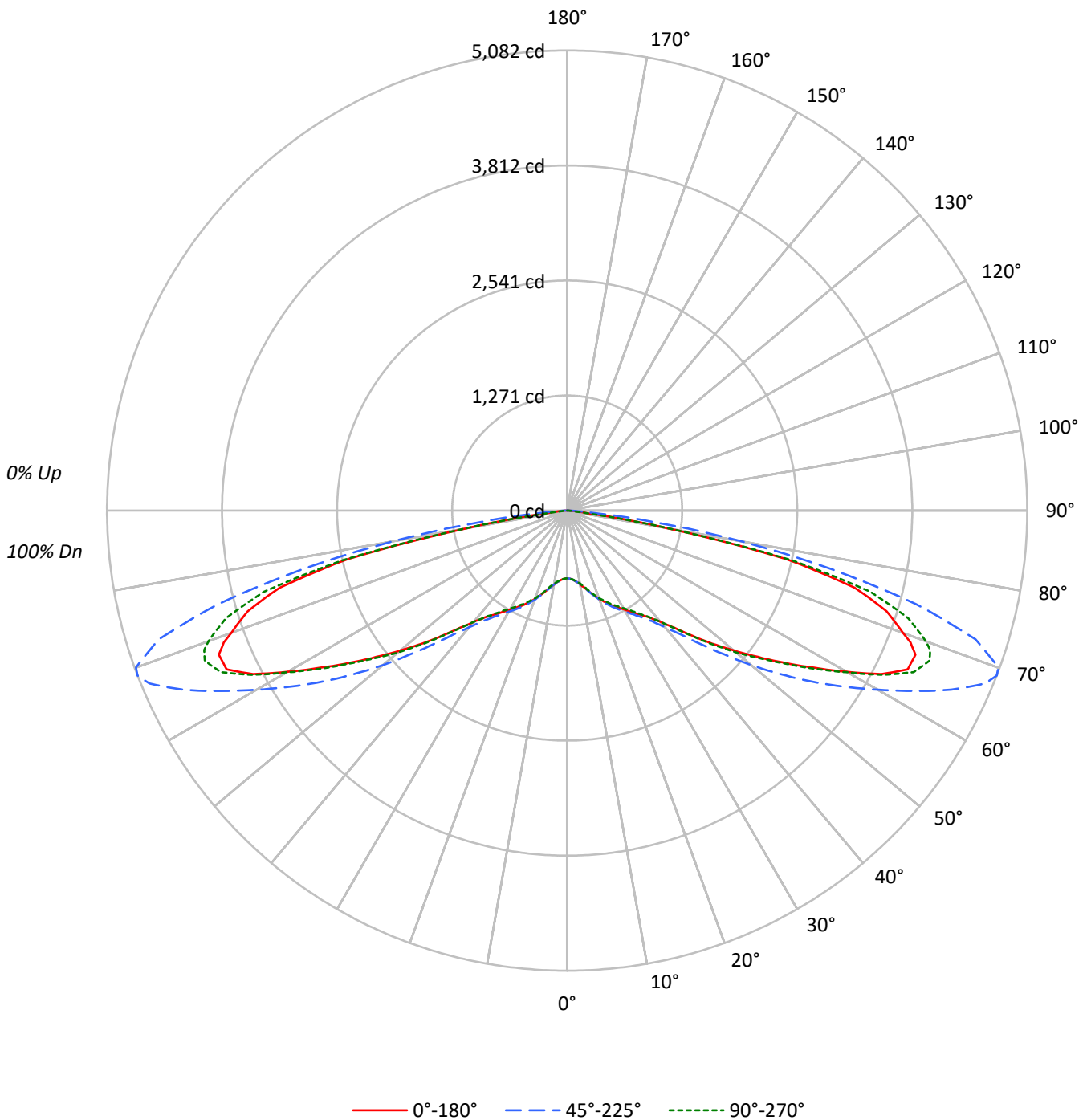
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14403.4 lumens  
Efficiency: N/A  
Efficacy: 92.0 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°	8051	8051	8051
5°	8310	8310	8278
10°	9049	9033	8949
15°	10268	10318	10166
20°	11884	11987	11780
25°	13683	13898	13486
30°	15669	16025	15482
35°	18428	18923	18270
40°	22524	23563	22524
45°	29751	31678	29865
50°	40226	44393	40782
55°	54985	61777	55297
60°	76613	85186	76906
65°	105661	119256	107505
70°	124152	159507	132599
75°	136594	165818	144183
80°	69078	120862	71136
85°	8942	32777	6891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.1	0.5
10°-20°	265.2	1.8
20°-30°	537.0	3.7
30°-40°	900.4	6.3
40°-50°	1588.1	11.0
50°-60°	2800.7	19.4
60°-70°	4275.8	29.7
70°-80°	3572.9	24.8
80°-90°	388.2	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°	877.3	6.1
0°-40°	1777.7	12.3
0°-60°	6166.5	42.8
0°-90°	14403.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14403.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	769	771	769	767	766	75
15°	921	926	926	918	912	265
25°	1152	1158	1170	1150	1136	535
35°	1402	1412	1440	1409	1390	891
45°	1954	1999	2081	2017	1962	1536
55°	2930	3069	3292	3094	2947	2655
65°	4148	4372	4682	4407	4221	3971
75°	3284	3469	3987	3691	3467	3163
85°	72	121	265	105	56	238
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°	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
2.5°	754.0	755.5	754.0	754.0	754.0	754.0	754.0	752.5	752.5	752.5	754.0
5°	769.1	770.6	769.1	770.6	770.6	770.6	770.6	769.1	769.1	769.1	769.1
7.5°	793.2	793.2	793.2	794.7	793.2	793.2	794.7	793.2	793.2	793.2	793.2
10°	827.9	826.4	826.4	826.4	826.4	826.4	827.9	827.9	827.9	826.4	826.4
12.5°	870.1	868.6	870.1	870.1	871.6	871.6	871.6	871.6	871.6	871.6	870.1
15°	921.4	921.4	921.4	922.9	925.9	925.9	924.4	925.9	925.9	925.9	925.9
17.5°	978.7	981.7	978.7	980.2	981.7	980.2	983.2	984.7	986.2	984.7	980.2
20°	1037.5	1039.0	1039.0	1039.0	1039.0	1042.0	1043.5	1043.5	1048.1	1046.5	1045.0
22.5°	1093.3	1096.3	1096.3	1097.8	1097.8	1102.3	1102.3	1102.3	1105.4	1108.4	1105.4
25°	1152.1	1150.6	1150.6	1153.6	1155.1	1161.1	1161.1	1164.2	1168.7	1170.2	1167.2
27.5°	1204.9	1203.4	1203.4	1207.9	1209.4	1216.9	1216.9	1223.0	1226.0	1227.5	1224.5
30°	1260.7	1260.7	1259.2	1263.7	1268.2	1274.2	1277.3	1283.3	1287.8	1289.3	1286.3
32.5°	1327.0	1324.0	1325.5	1328.5	1331.6	1337.6	1342.1	1349.6	1355.7	1357.2	1354.2
35°	1402.4	1397.9	1399.4	1402.4	1407.0	1416.0	1423.5	1428.1	1437.1	1440.1	1434.1
37.5°	1485.4	1486.9	1485.4	1492.9	1500.4	1511.0	1520.1	1526.1	1535.1	1539.7	1535.1
40°	1603.0	1598.5	1603.0	1610.5	1622.6	1636.2	1654.3	1658.8	1667.8	1676.9	1666.3
42.5°	1755.3	1752.3	1762.8	1768.9	1782.4	1797.5	1820.1	1832.2	1845.8	1851.8	1842.8
45°	1954.4	1954.4	1966.4	1967.9	1989.0	2008.6	2040.3	2055.4	2081.0	2081.0	2081.0
47.5°	2174.5	2183.6	2191.1	2206.2	2221.3	2257.5	2289.1	2322.3	2346.4	2349.4	2344.9
50°	2402.2	2411.3	2433.9	2455.0	2488.2	2533.4	2568.1	2611.8	2632.9	2651.0	2645.0
52.5°	2654.1	2655.6	2682.7	2709.9	2758.1	2807.9	2863.7	2908.9	2946.6	2963.2	2949.6
55°	2930.0	2933.0	2957.2	2985.8	3040.1	3097.4	3166.8	3213.5	3261.8	3291.9	3269.3
57.5°	3228.6	3230.1	3254.2	3288.9	3353.8	3411.1	3477.4	3543.8	3589.0	3616.2	3601.1
60°	3558.8	3566.4	3584.5	3628.2	3690.0	3750.4	3816.7	3875.5	3928.3	3957.0	3941.9
62.5°	3911.7	3919.3	3944.9	3979.6	4033.9	4100.2	4163.6	4239.0	4282.7	4314.4	4291.7
65°	4148.5	4162.0	4202.8	4249.5	4329.4	4415.4	4489.3	4591.8	4644.6	4682.3	4661.2
67.5°	4163.6	4171.1	4220.9	4291.7	4398.8	4528.5	4679.3	4839.1	4943.2	4992.9	4956.8
69°	4061.0	4071.6	4119.8	4199.7	4318.9	4469.7	4649.1	4848.2	5008.0	5081.9	5047.2
70°	3944.9	3967.5	4020.3	4107.8	4223.9	4382.2	4567.7	4780.3	4967.3	5068.3	5042.7
72.5°	3700.6	3706.6	3741.3	3810.7	3899.7	4030.8	4205.8	4406.3	4584.3	4729.0	4750.2
75°	3284.4	3304.0	3329.6	3376.4	3421.6	3516.6	3634.2	3771.5	3875.5	3987.1	3991.6
77.5°	2482.1	2541.0	2560.6	2571.1	2590.7	2666.1	2768.7	2887.8	2973.8	2991.8	2988.8
80°	1114.4	1192.8	1210.9	1296.9	1349.6	1474.8	1631.6	1814.1	1936.3	1949.8	1916.7
82.5°	218.7	233.7	272.9	340.8	464.5	538.4	640.9	769.1	886.7	954.6	913.8
85°	72.4	76.9	89.0	98.0	113.1	128.2	155.3	193.0	239.8	265.4	236.8
87.5°	28.7	28.7	33.2	36.2	39.2	39.2	39.2	36.2	34.7	28.7	25.6
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°	748.0	748.0	748.0	748.0	748.0	748.0	748.0	748.0
2.5°	752.5	752.5	752.5	752.5	752.5	752.5	752.5	752.5
5°	769.1	767.6	767.6	766.1	766.1	766.1	766.1	766.1
7.5°	791.7	790.2	788.7	790.2	788.7	788.7	788.7	788.7
10°	826.4	823.4	821.9	820.3	820.3	820.3	818.8	818.8
12.5°	867.1	867.1	865.6	864.1	861.1	862.6	861.1	858.0
15°	922.9	919.9	918.4	916.9	913.8	913.8	913.8	912.3
17.5°	978.7	975.7	975.7	971.1	969.6	969.6	969.6	971.1
20°	1040.5	1036.0	1033.0	1030.0	1026.9	1028.4	1025.4	1028.4
22.5°	1102.3	1096.3	1093.3	1088.8	1084.2	1084.2	1082.7	1079.7
25°	1162.7	1155.1	1152.1	1147.6	1141.5	1141.5	1138.5	1135.5
27.5°	1220.0	1212.4	1209.4	1200.4	1194.3	1192.8	1189.8	1188.3
30°	1283.3	1274.2	1269.7	1260.7	1251.6	1250.1	1245.6	1245.6
32.5°	1349.6	1340.6	1337.6	1324.0	1316.5	1316.5	1313.5	1310.4
35°	1432.6	1419.0	1416.0	1402.4	1391.9	1391.9	1388.9	1390.4
37.5°	1530.6	1520.1	1509.5	1498.9	1486.9	1485.4	1482.4	1479.3
40°	1661.8	1649.7	1637.7	1622.6	1612.0	1609.0	1604.5	1603.0
42.5°	1836.7	1824.7	1800.5	1788.5	1777.9	1768.9	1767.4	1765.9
45°	2059.9	2044.8	2028.2	2005.6	1992.1	1972.4	1969.4	1961.9
47.5°	2328.3	2299.7	2271.0	2251.4	2230.3	2207.7	2203.2	2191.1
50°	2613.3	2590.7	2542.5	2510.8	2477.6	2455.0	2439.9	2435.4
52.5°	2919.5	2877.2	2829.0	2786.8	2738.5	2708.3	2681.2	2673.7
55°	3239.2	3178.8	3118.5	3068.8	3020.5	2984.3	2958.7	2946.6
57.5°	3558.8	3492.5	3426.1	3371.9	3331.1	3284.4	3258.8	3252.7
60°	3892.1	3828.8	3760.9	3706.6	3656.9	3616.2	3601.1	3572.4
62.5°	4245.0	4178.6	4115.3	4062.5	3999.2	3970.5	3944.9	3928.3
65°	4591.8	4514.9	4435.0	4379.2	4315.9	4275.1	4243.5	4220.9
67.5°	4860.2	4744.1	4637.1	4543.6	4457.6	4394.3	4353.6	4332.4
69°	4935.6	4790.9	4653.6	4531.5	4430.5	4359.6	4314.4	4293.2
70°	4926.6	4766.7	4615.9	4481.7	4371.7	4296.3	4252.5	4213.3
72.5°	4647.6	4501.3	4334.0	4187.7	4088.2	4015.8	3972.0	3950.9
75°	3966.0	3868.0	3747.3	3634.2	3561.9	3519.6	3465.4	3466.9
77.5°	2887.8	2890.8	2809.4	2693.3	2611.8	2596.8	2572.6	2548.5
80°	1791.5	1648.2	1554.7	1429.6	1337.6	1257.7	1223.0	1147.6
82.5°	826.4	645.4	500.7	378.5	291.0	227.7	199.1	162.9
85°	184.0	140.2	116.1	93.5	79.9	73.9	60.3	55.8
87.5°	25.6	22.6	21.1	19.6	16.6	12.1	9.0	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)