

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: P147895

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147895
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15769.8 lumens
Efficiency: N/A
Efficacy: 100.8 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

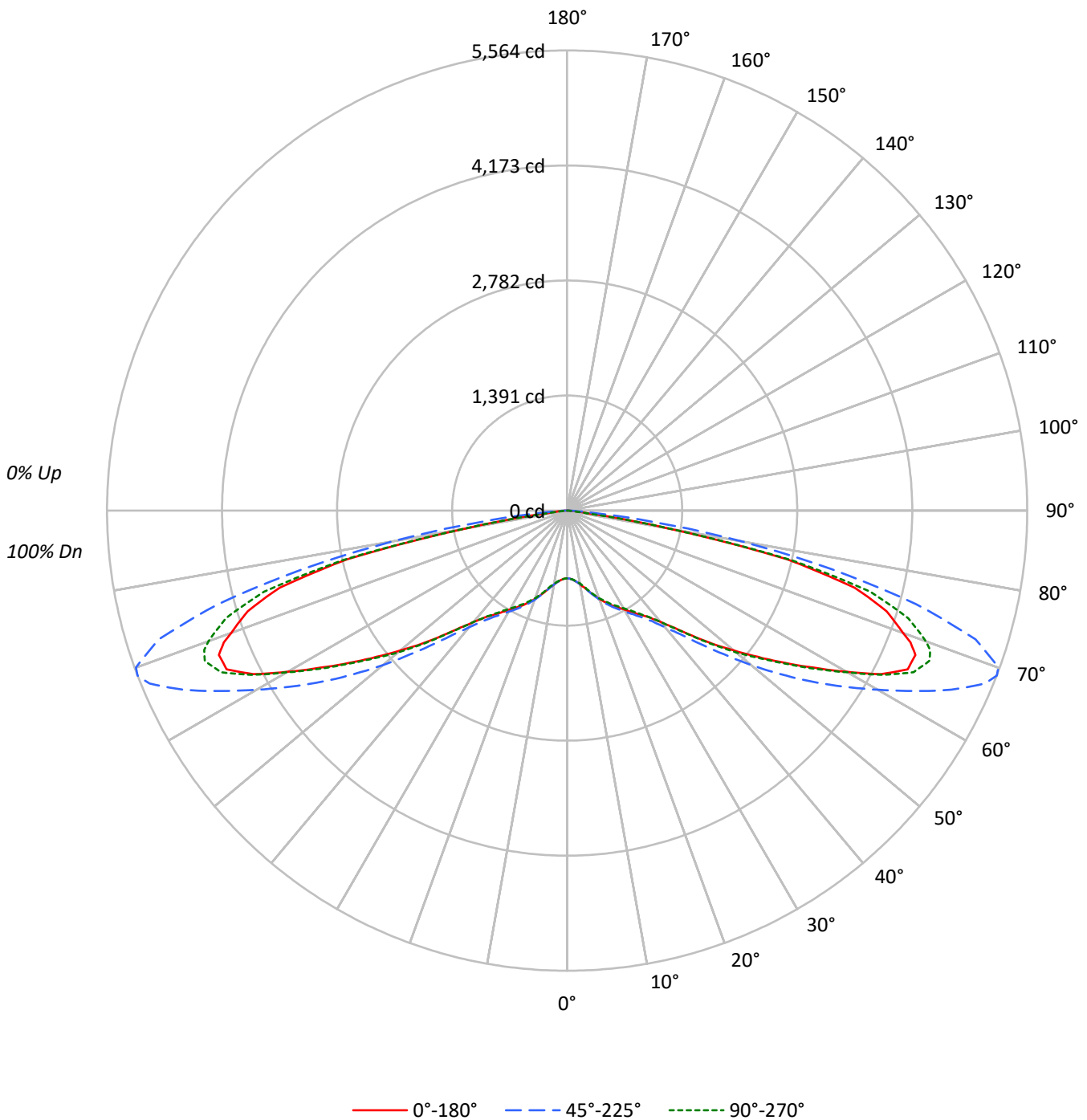
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8815	8815	8815
5°	9098	9098	9062
10°	9907	9889	9799
15°	11242	11296	11131
20°	13011	13125	12898
25°	14981	15216	14765
30°	17156	17545	16951
35°	20177	20720	20003
40°	24661	25798	24661
45°	32573	34683	32698
50°	44043	48604	44651
55°	60202	67638	60544
60°	83883	93267	84202
65°	115683	130570	117703
70°	135929	174642	145178
75°	149553	181551	157862
80°	75630	132330	77880
85°	9794	35890	7546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	0.5
10°-20°	290.4	1.8
20°-30°	588.0	3.7
30°-40°	985.8	6.3
40°-50°	1738.8	11.0
50°-60°	3066.3	19.4
60°-70°	4681.4	29.7
70°-80°	3911.8	24.8
80°-90°	425.1	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°	960.6	6.1
0°-40°	1946.3	12.3
0°-60°	6751.5	42.8
0°-90°	15769.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15769.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	842	844	842	840	839	82
15°	1009	1014	1014	1005	999	291
25°	1261	1268	1281	1259	1243	586
35°	1536	1545	1577	1543	1522	975
45°	2140	2188	2278	2208	2148	1681
55°	3208	3360	3604	3387	3226	2907
65°	4542	4787	5126	4825	4621	4348
75°	3596	3798	4365	4041	3796	3463
85°	79	132	291	115	61	261
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°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9
2.5°	825.5	827.2	825.5	825.5	825.5	825.5	825.5	823.9	823.9	823.9	825.5
5°	842.0	843.7	842.0	843.7	843.7	843.7	843.7	842.0	842.0	842.0	842.0
7.5°	868.5	868.5	868.5	870.1	868.5	868.5	870.1	868.5	868.5	868.5	868.5
10°	906.4	904.8	904.8	904.8	904.8	904.8	906.4	906.4	906.4	904.8	904.8
12.5°	952.7	951.0	952.7	952.7	954.3	954.3	954.3	954.3	954.3	954.3	952.7
15°	1008.8	1008.8	1008.8	1010.4	1013.7	1013.7	1012.1	1013.7	1013.7	1013.7	1013.7
17.5°	1071.5	1074.8	1071.5	1073.2	1074.8	1073.2	1076.5	1078.1	1079.8	1078.1	1073.2
20°	1135.9	1137.6	1137.6	1137.6	1137.6	1140.9	1142.5	1142.5	1147.5	1145.8	1144.2
22.5°	1197.0	1200.3	1200.3	1202.0	1202.0	1206.9	1206.9	1206.9	1210.2	1213.5	1210.2
25°	1261.4	1259.8	1259.8	1263.1	1264.7	1271.3	1271.3	1274.6	1279.6	1281.2	1277.9
27.5°	1319.2	1317.5	1317.5	1322.5	1324.1	1332.4	1332.4	1339.0	1342.3	1344.0	1340.7
30°	1380.3	1380.3	1378.6	1383.6	1388.5	1395.1	1398.4	1405.0	1410.0	1411.6	1408.3
32.5°	1452.9	1449.6	1451.3	1454.6	1457.9	1464.5	1469.4	1477.7	1484.3	1485.9	1482.6
35°	1535.5	1530.5	1532.2	1535.5	1540.4	1550.3	1558.6	1563.5	1573.5	1576.8	1570.1
37.5°	1626.3	1627.9	1626.3	1634.5	1642.8	1654.4	1664.3	1670.9	1680.8	1685.7	1680.8
40°	1755.1	1750.1	1755.1	1763.3	1776.5	1791.4	1811.2	1816.2	1826.1	1836.0	1824.4
42.5°	1921.8	1918.5	1930.1	1936.7	1951.5	1968.1	1992.8	2006.0	2020.9	2027.5	2017.6
45°	2139.8	2139.8	2153.0	2154.6	2177.7	2199.2	2233.9	2250.4	2278.4	2278.4	2278.4
47.5°	2380.8	2390.7	2399.0	2415.5	2432.0	2471.6	2506.3	2542.6	2569.0	2572.3	2567.4
50°	2630.1	2640.0	2664.8	2687.9	2724.2	2773.8	2811.7	2859.6	2882.7	2902.5	2895.9
52.5°	2905.8	2907.5	2937.2	2966.9	3019.8	3074.3	3135.3	3184.9	3226.2	3244.3	3229.5
55°	3208.0	3211.3	3237.7	3269.1	3328.5	3391.3	3467.2	3518.4	3571.2	3604.2	3579.5
57.5°	3534.9	3536.5	3563.0	3600.9	3671.9	3734.7	3807.3	3880.0	3929.5	3959.2	3942.7
60°	3896.5	3904.7	3924.5	3972.4	4040.1	4106.2	4178.8	4243.2	4301.0	4332.4	4315.8
62.5°	4282.8	4291.1	4319.1	4357.1	4416.6	4489.2	4558.5	4641.1	4689.0	4723.7	4698.9
65°	4542.0	4556.9	4601.5	4652.7	4740.2	4834.3	4915.2	5027.4	5085.2	5126.5	5103.4
67.5°	4558.5	4566.8	4621.3	4698.9	4816.1	4958.1	5123.2	5298.2	5412.1	5466.6	5427.0
69°	4446.3	4457.8	4510.7	4598.2	4728.6	4893.7	5090.2	5308.1	5483.1	5564.0	5526.1
70°	4319.1	4343.9	4401.7	4497.5	4624.6	4798.0	5001.0	5233.8	5438.6	5549.2	5521.1
72.5°	4051.7	4058.3	4096.3	4172.2	4269.6	4413.3	4604.8	4824.4	5019.2	5177.7	5200.8
75°	3596.0	3617.5	3645.5	3696.7	3746.2	3850.2	3979.0	4129.3	4243.2	4365.4	4370.3
77.5°	2717.6	2782.0	2803.5	2815.0	2836.5	2919.1	3031.3	3161.8	3255.9	3275.7	3272.4
80°	1220.1	1306.0	1325.8	1419.9	1477.7	1614.7	1786.4	1986.2	2119.9	2134.8	2098.5
82.5°	239.4	255.9	298.8	373.1	508.5	589.4	701.7	842.0	970.8	1045.1	1000.5
85°	79.3	84.2	97.4	107.3	123.8	140.3	170.1	211.3	262.5	290.6	259.2
87.5°	31.4	31.4	36.3	39.6	42.9	42.9	42.9	39.6	38.0	31.4	28.1
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°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9
2.5°	823.9	823.9	823.9	823.9	823.9	823.9	823.9	823.9
5°	842.0	840.4	840.4	838.7	838.7	838.7	838.7	838.7
7.5°	866.8	865.2	863.5	865.2	863.5	863.5	863.5	863.5
10°	904.8	901.5	899.8	898.2	898.2	898.2	896.5	896.5
12.5°	949.4	949.4	947.7	946.1	942.7	944.4	942.7	939.4
15°	1010.4	1007.1	1005.5	1003.8	1000.5	1000.5	1000.5	998.9
17.5°	1071.5	1068.2	1068.2	1063.3	1061.6	1061.6	1061.6	1063.3
20°	1139.2	1134.3	1131.0	1127.7	1124.4	1126.0	1122.7	1126.0
22.5°	1206.9	1200.3	1197.0	1192.1	1187.1	1187.1	1185.5	1182.2
25°	1273.0	1264.7	1261.4	1256.4	1249.8	1249.8	1246.5	1243.2
27.5°	1335.7	1327.4	1324.1	1314.2	1307.6	1306.0	1302.7	1301.0
30°	1405.0	1395.1	1390.2	1380.3	1370.4	1368.7	1363.8	1363.8
32.5°	1477.7	1467.8	1464.5	1449.6	1441.4	1441.4	1438.1	1434.8
35°	1568.5	1553.6	1550.3	1535.5	1523.9	1523.9	1520.6	1522.3
37.5°	1675.8	1664.3	1652.7	1641.1	1627.9	1626.3	1623.0	1619.7
40°	1819.5	1806.2	1793.0	1776.5	1765.0	1761.7	1756.7	1755.1
42.5°	2011.0	1997.8	1971.4	1958.1	1946.6	1936.7	1935.0	1933.4
45°	2255.3	2238.8	2220.7	2195.9	2181.0	2159.6	2156.3	2148.0
47.5°	2549.2	2517.9	2486.5	2465.0	2441.9	2417.1	2412.2	2399.0
50°	2861.3	2836.5	2783.7	2749.0	2712.7	2687.9	2671.4	2666.4
52.5°	3196.4	3150.2	3097.4	3051.1	2998.3	2965.3	2935.6	2927.3
55°	3546.5	3480.4	3414.4	3359.9	3307.1	3267.4	3239.4	3226.2
57.5°	3896.5	3823.8	3751.2	3691.7	3647.2	3596.0	3567.9	3561.3
60°	4261.4	4192.0	4117.7	4058.3	4003.8	3959.2	3942.7	3911.3
62.5°	4647.7	4575.1	4505.7	4447.9	4378.6	4347.2	4319.1	4301.0
65°	5027.4	4943.2	4855.7	4794.6	4725.3	4680.7	4646.1	4621.3
67.5°	5321.3	5194.2	5077.0	4974.6	4880.5	4811.2	4766.6	4743.5
69°	5403.9	5245.4	5095.1	4961.4	4850.8	4773.2	4723.7	4700.5
70°	5394.0	5219.0	5053.9	4906.9	4786.4	4703.8	4656.0	4613.0
72.5°	5088.5	4928.4	4745.1	4585.0	4476.0	4396.7	4348.9	4325.8
75°	4342.3	4234.9	4102.9	3979.0	3899.8	3853.6	3794.1	3795.8
77.5°	3161.8	3165.1	3075.9	2948.8	2859.6	2843.1	2816.7	2790.3
80°	1961.4	1804.6	1702.2	1565.2	1464.5	1377.0	1339.0	1256.4
82.5°	904.8	706.6	548.1	414.4	318.7	249.3	217.9	178.3
85°	201.4	153.5	127.1	102.4	87.5	80.9	66.0	61.1
87.5°	28.1	24.8	23.1	21.5	18.2	13.2	9.9	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)