

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: P147879

Luminaire Tested: **TLM-E05-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147879
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-E05-LED-E1-5WQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

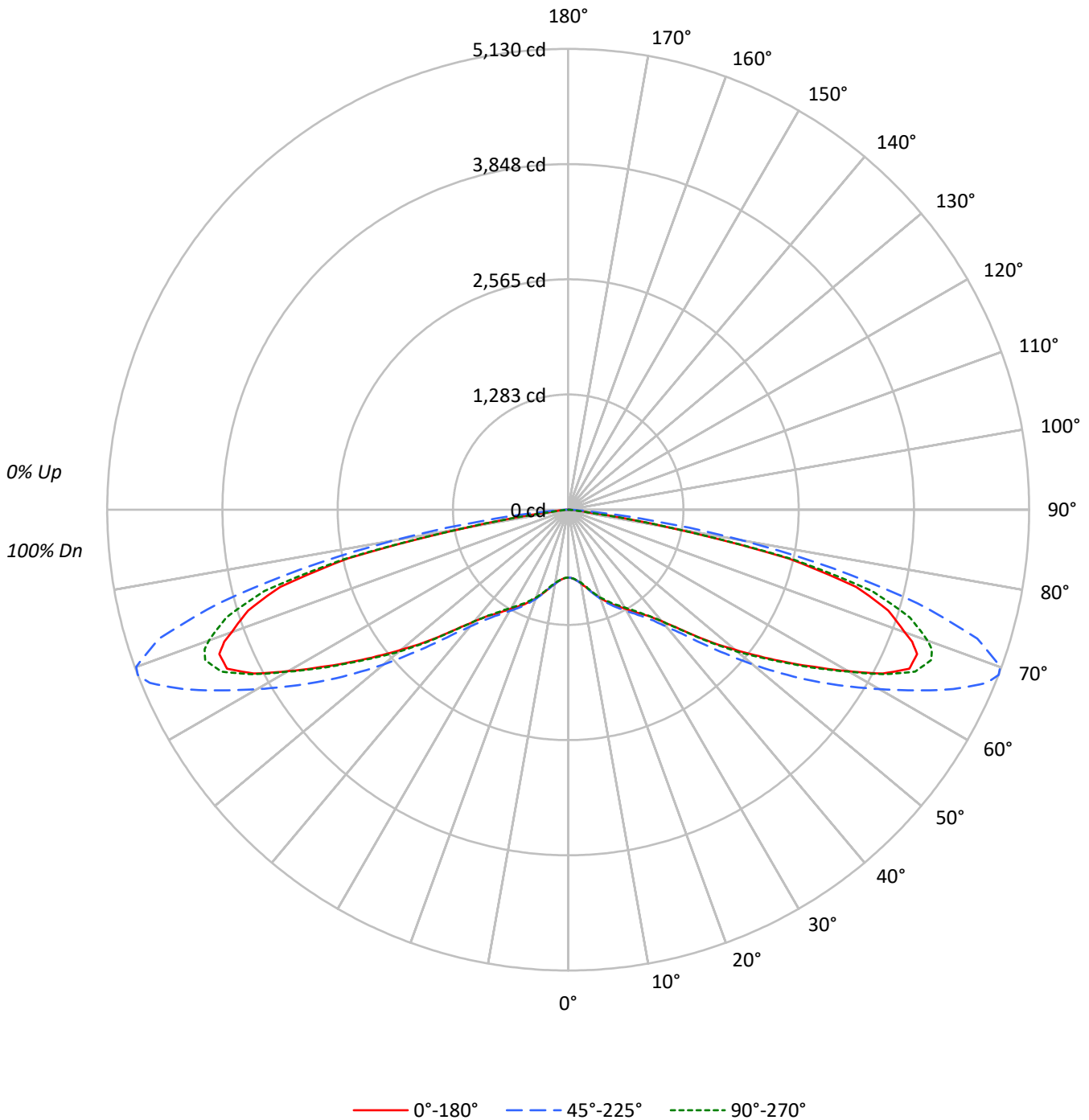
Lumens per Lamp: N/A
Luminaire Lumens: 14539.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
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°	9791	9791	9791
5°	10106	10106	10067
10°	11005	10985	10885
15°	12488	12549	12365
20°	14454	14579	14328
25°	16642	16904	16403
30°	19057	19490	18829
35°	22413	23015	22220
40°	27395	28656	27395
45°	36182	38528	36321
50°	48924	53992	49599
55°	66874	75135	67253
60°	93179	103603	93535
65°	128505	145042	130748
70°	150995	193998	161271
75°	166129	201670	175358
80°	84011	146999	86513
85°	10877	39863	8377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	0.5
10°-20°	267.7	1.8
20°-30°	542.1	3.7
30°-40°	908.9	6.3
40°-50°	1603.2	11.0
50°-60°	2827.1	19.4
60°-70°	4316.2	29.7
70°-80°	3606.7	24.8
80°-90°	391.9	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°	885.6	6.1
0°-40°	1794.5	12.3
0°-60°	6224.8	42.8
0°-90°	14539.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14539.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	776	778	776	774	773	76
15°	930	935	935	926	921	268
25°	1163	1169	1181	1161	1146	540
35°	1416	1425	1454	1423	1404	899
45°	1973	2018	2101	2036	1980	1550
55°	2958	3098	3323	3123	2974	2680
65°	4188	4414	4727	4449	4261	4008
75°	3316	3502	4025	3726	3500	3193
85°	73	122	268	106	56	240
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°	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
2.5°	761.1	762.6	761.1	761.1	761.1	761.1	761.1	759.6	759.6	759.6	761.1
5°	776.3	777.9	776.3	777.9	777.9	777.9	777.9	776.3	776.3	776.3	776.3
7.5°	800.7	800.7	800.7	802.2	800.7	800.7	802.2	800.7	800.7	800.7	800.7
10°	835.7	834.2	834.2	834.2	834.2	834.2	835.7	835.7	835.7	834.2	834.2
12.5°	878.3	876.8	878.3	878.3	879.9	879.9	879.9	879.9	879.9	879.9	878.3
15°	930.1	930.1	930.1	931.6	934.7	934.7	933.1	934.7	934.7	934.7	934.7
17.5°	987.9	991.0	987.9	989.5	991.0	989.5	992.5	994.0	995.6	994.0	989.5
20°	1047.3	1048.8	1048.8	1048.8	1048.8	1051.9	1053.4	1053.4	1058.0	1056.4	1054.9
22.5°	1103.6	1106.7	1106.7	1108.2	1108.2	1112.8	1112.8	1112.8	1115.8	1118.9	1115.8
25°	1163.0	1161.5	1161.5	1164.5	1166.0	1172.1	1172.1	1175.2	1179.7	1181.3	1178.2
27.5°	1216.3	1214.8	1214.8	1219.3	1220.8	1228.5	1228.5	1234.5	1237.6	1239.1	1236.1
30°	1272.6	1272.6	1271.1	1275.6	1280.2	1286.3	1289.3	1295.4	1300.0	1301.5	1298.5
32.5°	1339.6	1336.5	1338.1	1341.1	1344.1	1350.2	1354.8	1362.4	1368.5	1370.0	1367.0
35°	1415.7	1411.1	1412.6	1415.7	1420.3	1429.4	1437.0	1441.6	1450.7	1453.7	1447.7
37.5°	1499.4	1500.9	1499.4	1507.0	1514.6	1525.3	1534.4	1540.5	1549.7	1554.2	1549.7
40°	1618.2	1613.6	1618.2	1625.8	1637.9	1651.6	1669.9	1674.5	1683.6	1692.7	1682.1
42.5°	1771.9	1768.9	1779.5	1785.6	1799.3	1814.5	1837.4	1849.5	1863.2	1869.3	1860.2
45°	1972.8	1972.8	1985.0	1986.5	2007.8	2027.6	2059.6	2074.8	2100.7	2100.7	2100.7
47.5°	2195.1	2204.2	2211.8	2227.1	2242.3	2278.8	2310.8	2344.3	2368.6	2371.7	2367.1
50°	2424.9	2434.1	2456.9	2478.2	2511.7	2557.4	2592.4	2636.5	2657.8	2676.1	2670.0
52.5°	2679.2	2680.7	2708.1	2735.5	2784.2	2834.4	2890.8	2936.4	2974.5	2991.2	2977.5
55°	2957.7	2960.8	2985.1	3014.1	3068.9	3126.7	3196.7	3243.9	3292.6	3323.1	3300.2
57.5°	3259.1	3260.7	3285.0	3320.0	3385.5	3443.3	3510.3	3577.3	3623.0	3650.4	3635.1
60°	3592.5	3600.1	3618.4	3662.5	3724.9	3785.8	3852.8	3912.2	3965.5	3994.4	3979.2
62.5°	3948.7	3956.3	3982.2	4017.2	4072.0	4139.0	4202.9	4279.0	4323.2	4355.2	4332.3
65°	4187.7	4201.4	4242.5	4289.7	4370.4	4457.1	4531.7	4635.3	4688.5	4726.6	4705.3
67.5°	4202.9	4210.5	4260.8	4332.3	4440.4	4571.3	4723.5	4884.9	4989.9	5040.2	5003.6
69°	4099.4	4110.1	4158.8	4239.5	4359.7	4512.0	4693.1	4894.0	5055.4	5130.0	5095.0
70°	3982.2	4005.0	4058.3	4146.6	4263.8	4423.7	4610.9	4825.5	5014.3	5116.3	5090.4
72.5°	3735.6	3741.7	3776.7	3846.7	3936.5	4069.0	4245.6	4448.0	4627.6	4773.8	4795.1
75°	3315.5	3335.3	3361.1	3408.3	3454.0	3549.9	3668.6	3807.1	3912.2	4024.8	4029.4
77.5°	2505.6	2565.0	2584.8	2595.4	2615.2	2691.3	2794.9	2915.1	3001.9	3020.1	3017.1
80°	1124.9	1204.1	1222.4	1309.1	1362.4	1488.8	1647.1	1831.3	1954.6	1968.3	1934.8
82.5°	220.7	235.9	275.5	344.0	468.9	543.4	647.0	776.3	895.1	963.6	922.5
85°	73.1	77.6	89.8	98.9	114.2	129.4	156.8	194.8	242.0	267.9	239.0
87.5°	28.9	28.9	33.5	36.5	39.6	39.6	39.6	36.5	35.0	28.9	25.9
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°	755.0	755.0	755.0	755.0	755.0	755.0	755.0	755.0
2.5°	759.6	759.6	759.6	759.6	759.6	759.6	759.6	759.6
5°	776.3	774.8	774.8	773.3	773.3	773.3	773.3	773.3
7.5°	799.2	797.7	796.1	797.7	796.1	796.1	796.1	796.1
10°	834.2	831.1	829.6	828.1	828.1	828.1	826.6	826.6
12.5°	875.3	875.3	873.8	872.2	869.2	870.7	869.2	866.2
15°	931.6	928.6	927.1	925.5	922.5	922.5	922.5	921.0
17.5°	987.9	984.9	984.9	980.3	978.8	978.8	978.8	980.3
20°	1050.4	1045.8	1042.7	1039.7	1036.7	1038.2	1035.1	1038.2
22.5°	1112.8	1106.7	1103.6	1099.1	1094.5	1094.5	1093.0	1089.9
25°	1173.7	1166.0	1163.0	1158.4	1152.3	1152.3	1149.3	1146.3
27.5°	1231.5	1223.9	1220.8	1211.7	1205.6	1204.1	1201.1	1199.5
30°	1295.4	1286.3	1281.7	1272.6	1263.5	1261.9	1257.4	1257.4
32.5°	1362.4	1353.3	1350.2	1336.5	1328.9	1328.9	1325.9	1322.8
35°	1446.1	1432.4	1429.4	1415.7	1405.0	1405.0	1402.0	1403.5
37.5°	1545.1	1534.4	1523.8	1513.1	1500.9	1499.4	1496.4	1493.3
40°	1677.5	1665.3	1653.2	1637.9	1627.3	1624.2	1619.7	1618.2
42.5°	1854.1	1841.9	1817.6	1805.4	1794.7	1785.6	1784.1	1782.6
45°	2079.4	2064.2	2047.4	2024.6	2010.9	1991.1	1988.1	1980.4
47.5°	2350.4	2321.4	2292.5	2272.7	2251.4	2228.6	2224.0	2211.8
50°	2638.1	2615.2	2566.5	2534.5	2501.1	2478.2	2463.0	2458.4
52.5°	2947.1	2904.5	2855.7	2813.1	2764.4	2734.0	2706.6	2699.0
55°	3269.8	3208.9	3148.0	3097.8	3049.1	3012.5	2986.7	2974.5
57.5°	3592.5	3525.5	3458.6	3403.8	3362.7	3315.5	3289.6	3283.5
60°	3928.9	3865.0	3796.5	3741.7	3691.5	3650.4	3635.1	3606.2
62.5°	4285.1	4218.2	4154.2	4100.9	4037.0	4008.1	3982.2	3965.5
65°	4635.3	4557.6	4476.9	4420.6	4356.7	4315.6	4283.6	4260.8
67.5°	4906.2	4789.0	4680.9	4586.5	4499.8	4435.8	4394.7	4373.4
69°	4982.3	4836.2	4697.7	4574.4	4472.4	4400.8	4355.2	4333.8
70°	4973.2	4811.8	4659.6	4524.1	4413.0	4336.9	4292.7	4253.2
72.5°	4691.6	4543.9	4374.9	4227.3	4126.8	4053.8	4009.6	3988.3
75°	4003.5	3904.6	3782.8	3668.6	3595.6	3552.9	3498.1	3499.7
77.5°	2915.1	2918.2	2836.0	2718.7	2636.5	2621.3	2597.0	2572.6
80°	1808.4	1663.8	1569.4	1443.1	1350.2	1269.6	1234.5	1158.4
82.5°	834.2	651.5	505.4	382.1	293.8	229.9	200.9	164.4
85°	185.7	141.6	117.2	94.4	80.7	74.6	60.9	56.3
87.5°	25.9	22.8	21.3	19.8	16.7	12.2	9.1	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)