

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: P147882

Luminaire Tested: **TLM-E05-LED-E1-5WQ-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147882  
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-7060  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (105) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

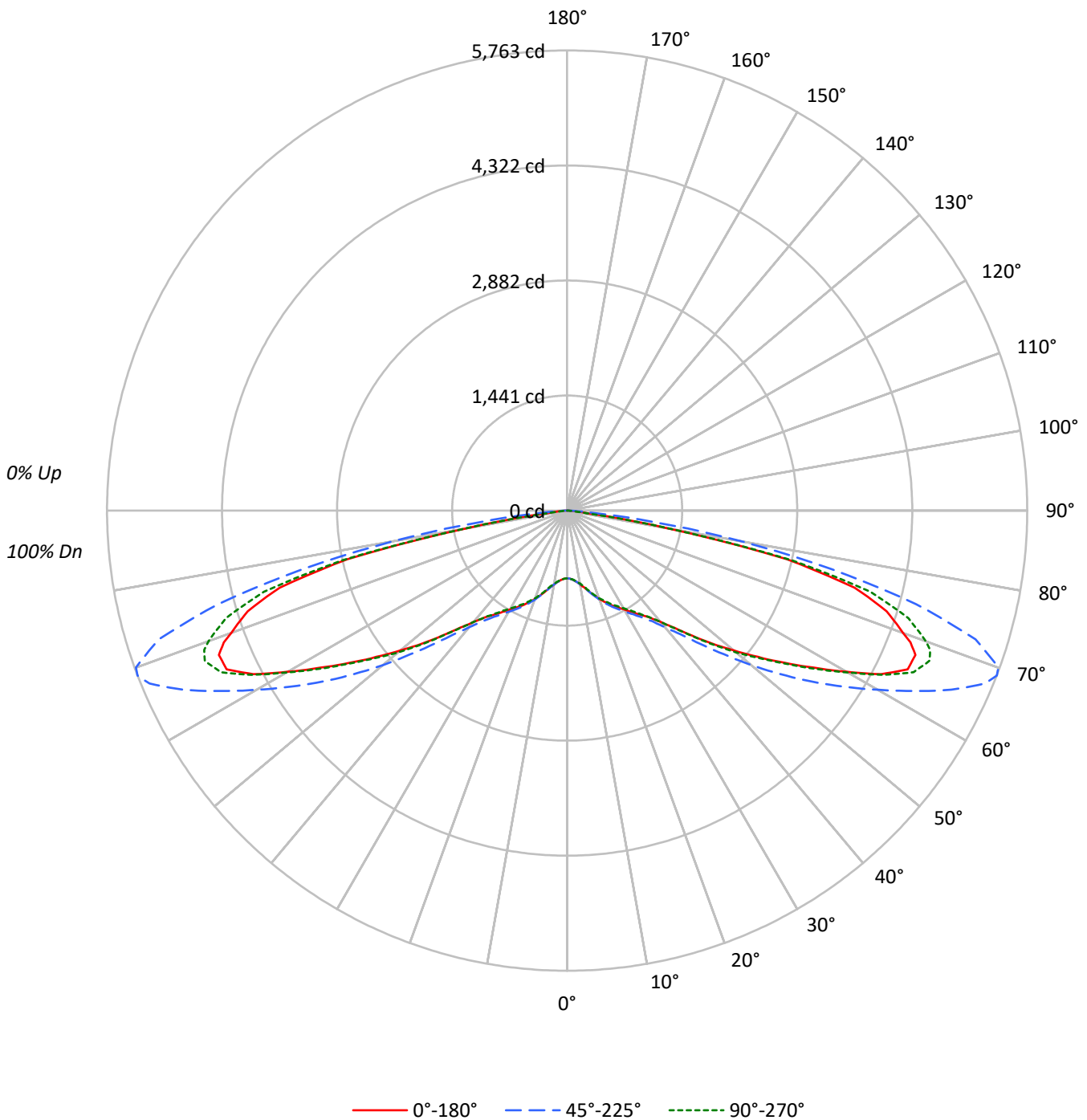
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16334.6 lumens  
Efficiency: N/A  
Efficacy: 128.3 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°	11000	11000	11000
5°	11354	11354	11310
10°	12364	12342	12228
15°	14029	14097	13892
20°	16238	16380	16096
25°	18696	18990	18427
30°	21409	21896	21153
35°	25180	25856	24963
40°	30776	32194	30776
45°	40650	43283	40805
50°	54964	60658	55723
55°	75131	84410	75556
60°	104682	116393	105082
65°	144370	162947	146889
70°	169636	217946	181178
75°	186637	226568	197005
80°	94384	165147	97192
85°	12216	44788	9419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	0.5
10°-20°	300.8	1.8
20°-30°	609.0	3.7
30°-40°	1021.1	6.3
40°-50°	1801.1	11.0
50°-60°	3176.2	19.4
60°-70°	4849.1	29.7
70°-80°	4051.9	24.8
80°-90°	440.3	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°	995.0	6.1
0°-40°	2016.0	12.3
0°-60°	6993.3	42.8
0°-90°	16334.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16334.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	872	874	872	870	869	85
15°	1045	1050	1050	1041	1035	301
25°	1307	1313	1327	1304	1288	607
35°	1590	1601	1633	1598	1577	1010
45°	2216	2267	2360	2287	2225	1741
55°	3323	3480	3733	3508	3342	3011
65°	4705	4959	5310	4998	4787	4503
75°	3725	3934	4522	4186	3932	3587
85°	82	137	301	119	63	270
90°	0	0	0	0	0	



TEST NUMBER: P147882

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2
2.5°	855.1	856.8	855.1	855.1	855.1	855.1	855.1	853.4	853.4	853.4	855.1
5°	872.2	873.9	872.2	873.9	873.9	873.9	873.9	872.2	872.2	872.2	872.2
7.5°	899.6	899.6	899.6	901.3	899.6	899.6	901.3	899.6	899.6	899.6	899.6
10°	938.9	937.2	937.2	937.2	937.2	937.2	938.9	938.9	938.9	937.2	937.2
12.5°	986.8	985.1	986.8	986.8	988.5	988.5	988.5	988.5	988.5	988.5	986.8
15°	1044.9	1044.9	1044.9	1046.6	1050.0	1050.0	1048.3	1050.0	1050.0	1050.0	1050.0
17.5°	1109.9	1113.3	1109.9	1111.6	1113.3	1111.6	1115.0	1116.7	1118.5	1116.7	1111.6
20°	1176.6	1178.3	1178.3	1178.3	1178.3	1181.7	1183.4	1183.4	1188.6	1186.9	1185.2
22.5°	1239.9	1243.3	1243.3	1245.0	1245.0	1250.1	1250.1	1250.1	1253.6	1257.0	1253.6
25°	1306.6	1304.9	1304.9	1308.3	1310.0	1316.8	1316.8	1320.3	1325.4	1327.1	1323.7
27.5°	1366.4	1364.7	1364.7	1369.9	1371.6	1380.1	1380.1	1387.0	1390.4	1392.1	1388.7
30°	1429.7	1429.7	1428.0	1433.1	1438.3	1445.1	1448.5	1455.4	1460.5	1462.2	1458.8
32.5°	1505.0	1501.5	1503.2	1506.7	1510.1	1516.9	1522.1	1530.6	1537.4	1539.2	1535.7
35°	1590.5	1585.3	1587.0	1590.5	1595.6	1605.9	1614.4	1619.5	1629.8	1633.2	1626.4
37.5°	1684.5	1686.2	1684.5	1693.1	1701.6	1713.6	1723.9	1730.7	1741.0	1746.1	1741.0
40°	1817.9	1812.8	1817.9	1826.5	1840.1	1855.5	1876.1	1881.2	1891.5	1901.7	1889.7
42.5°	1990.6	1987.2	1999.2	2006.0	2021.4	2038.5	2064.2	2077.9	2093.3	2100.1	2089.8
45°	2216.4	2216.4	2230.1	2231.8	2255.7	2278.0	2313.9	2331.0	2360.0	2360.0	2360.0
47.5°	2466.1	2476.3	2484.9	2502.0	2519.1	2560.1	2596.0	2633.7	2661.0	2664.5	2659.3
50°	2724.3	2734.6	2760.2	2784.2	2821.8	2873.1	2912.4	2962.0	2986.0	3006.5	2999.6
52.5°	3009.9	3011.6	3042.4	3073.2	3127.9	3184.3	3247.6	3298.9	3341.7	3360.5	3345.1
55°	3322.9	3326.3	3353.7	3386.1	3447.7	3512.7	3591.4	3644.4	3699.1	3733.3	3707.7
57.5°	3661.5	3663.2	3690.6	3729.9	3803.4	3868.4	3943.7	4018.9	4070.2	4101.0	4083.9
60°	4036.0	4044.6	4065.1	4114.7	4184.8	4253.2	4328.5	4395.2	4455.0	4487.5	4470.4
62.5°	4436.2	4444.7	4473.8	4513.2	4574.7	4650.0	4721.8	4807.3	4856.9	4892.8	4867.2
65°	4704.7	4720.1	4766.3	4819.3	4909.9	5007.4	5091.2	5207.5	5267.3	5310.1	5286.2
67.5°	4721.8	4730.3	4786.8	4867.2	4988.6	5135.7	5306.7	5488.0	5606.0	5662.4	5621.3
69°	4605.5	4617.5	4672.2	4762.8	4897.9	5069.0	5272.5	5498.2	5679.5	5763.3	5724.0
70°	4473.8	4499.5	4559.3	4658.5	4790.2	4969.8	5180.1	5421.3	5633.3	5747.9	5718.8
72.5°	4196.8	4203.6	4242.9	4321.6	4422.5	4571.3	4769.7	4997.1	5198.9	5363.1	5387.1
75°	3724.8	3747.0	3776.1	3829.1	3880.4	3988.1	4121.5	4277.1	4395.2	4521.7	4526.8
77.5°	2814.9	2881.6	2903.9	2915.8	2938.1	3023.6	3139.9	3275.0	3372.5	3393.0	3389.6
80°	1263.8	1352.7	1373.3	1470.8	1530.6	1672.6	1850.4	2057.3	2195.9	2211.3	2173.6
82.5°	248.0	265.1	309.5	386.5	526.7	610.5	726.8	872.2	1005.6	1082.5	1036.4
85°	82.1	87.2	100.9	111.2	128.3	145.4	176.1	218.9	271.9	301.0	268.5
87.5°	32.5	32.5	37.6	41.0	44.5	44.5	44.5	41.0	39.3	32.5	29.1
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°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2
2.5°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
5°	872.2	870.5	870.5	868.8	868.8	868.8	868.8	868.8
7.5°	897.8	896.1	894.4	896.1	894.4	894.4	894.4	894.4
10°	937.2	933.8	932.0	930.3	930.3	930.3	928.6	928.6
12.5°	983.4	983.4	981.6	979.9	976.5	978.2	976.5	973.1
15°	1046.6	1043.2	1041.5	1039.8	1036.4	1036.4	1036.4	1034.7
17.5°	1109.9	1106.5	1106.5	1101.4	1099.6	1099.6	1099.6	1101.4
20°	1180.0	1174.9	1171.5	1168.1	1164.6	1166.3	1162.9	1166.3
22.5°	1250.1	1243.3	1239.9	1234.7	1229.6	1229.6	1227.9	1224.5
25°	1318.5	1310.0	1306.6	1301.4	1294.6	1294.6	1291.2	1287.8
27.5°	1383.5	1375.0	1371.6	1361.3	1354.5	1352.7	1349.3	1347.6
30°	1455.4	1445.1	1440.0	1429.7	1419.4	1417.7	1412.6	1412.6
32.5°	1530.6	1520.3	1516.9	1501.5	1493.0	1493.0	1489.6	1486.1
35°	1624.7	1609.3	1605.9	1590.5	1578.5	1578.5	1575.1	1576.8
37.5°	1735.8	1723.9	1711.9	1699.9	1686.2	1684.5	1681.1	1677.7
40°	1884.6	1870.9	1857.3	1840.1	1828.2	1824.8	1819.6	1817.9
42.5°	2083.0	2069.3	2041.9	2028.3	2016.3	2006.0	2004.3	2002.6
45°	2336.1	2319.0	2300.2	2274.5	2259.1	2236.9	2233.5	2224.9
47.5°	2640.5	2608.0	2575.5	2553.3	2529.3	2503.7	2498.6	2484.9
50°	2963.7	2938.1	2883.4	2847.4	2809.8	2784.2	2767.1	2761.9
52.5°	3310.9	3263.0	3208.3	3160.4	3105.7	3071.5	3040.7	3032.1
55°	3673.5	3605.1	3536.6	3480.2	3425.5	3384.4	3355.4	3341.7
57.5°	4036.0	3960.8	3885.5	3824.0	3777.8	3724.8	3695.7	3688.8
60°	4414.0	4342.1	4265.2	4203.6	4147.2	4101.0	4083.9	4051.4
62.5°	4814.1	4738.9	4667.1	4607.2	4535.4	4502.9	4473.8	4455.0
65°	5207.5	5120.3	5029.6	4966.4	4894.5	4848.3	4812.4	4786.8
67.5°	5511.9	5380.2	5258.8	5152.8	5055.3	4983.5	4937.3	4913.3
69°	5597.4	5433.2	5277.6	5139.1	5024.5	4944.1	4892.8	4868.9
70°	5587.1	5405.9	5234.8	5082.6	4957.8	4872.3	4822.7	4778.2
72.5°	5270.8	5104.9	4915.0	4749.2	4636.3	4554.2	4504.6	4480.7
75°	4497.8	4386.6	4249.8	4121.5	4039.4	3991.6	3930.0	3931.7
77.5°	3275.0	3278.4	3186.1	3054.4	2962.0	2944.9	2917.6	2890.2
80°	2031.7	1869.2	1763.2	1621.2	1516.9	1426.3	1387.0	1301.4
82.5°	937.2	732.0	567.8	429.3	330.1	258.2	225.7	184.7
85°	208.6	159.0	131.7	106.0	90.6	83.8	68.4	63.3
87.5°	29.1	25.7	23.9	22.2	18.8	13.7	10.3	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)