

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: P147888

Luminaire Tested: **TLM-E06-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147888
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-E06-LED-E1-5WQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

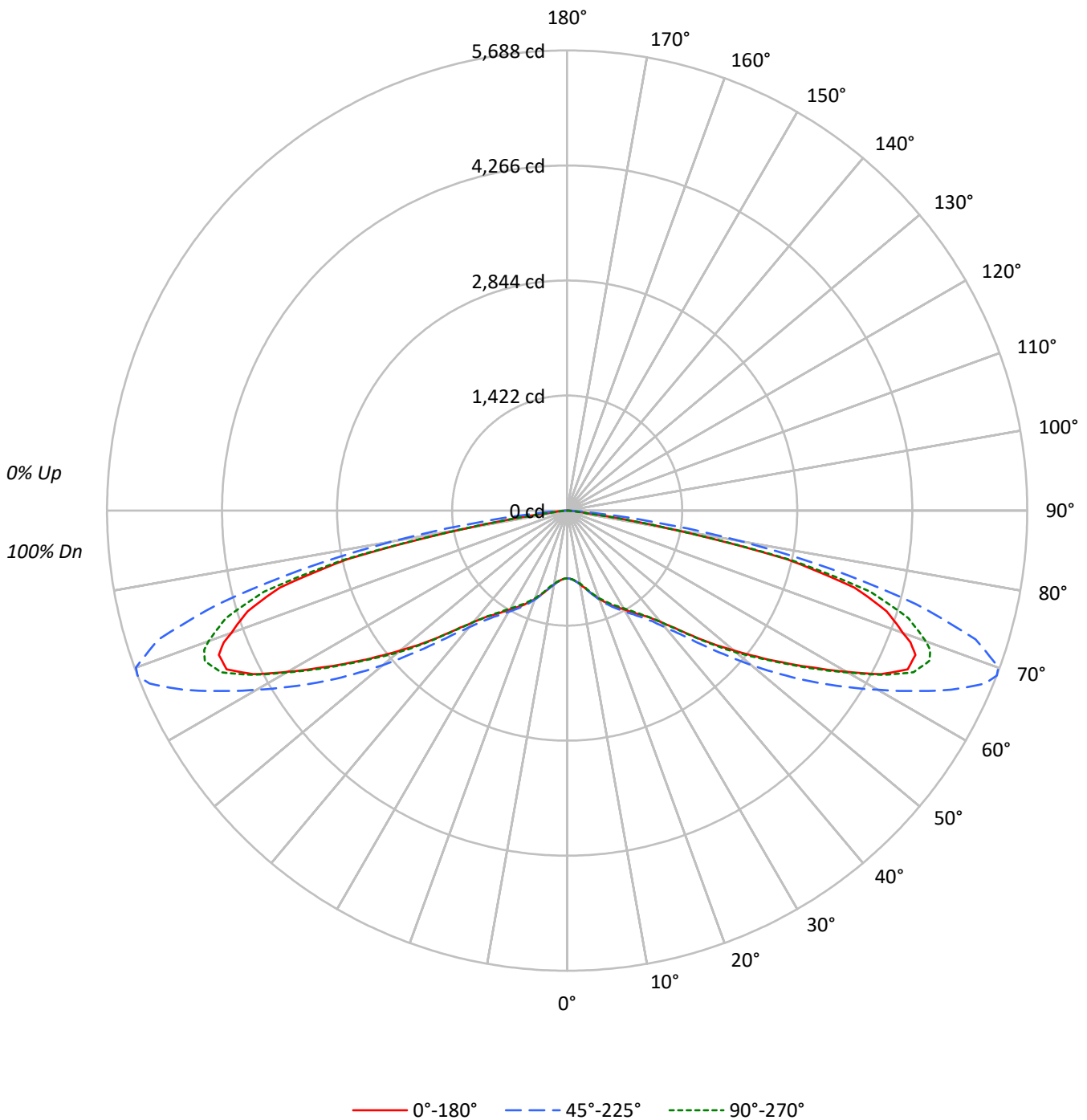
Lumens per Lamp: N/A
Luminaire Lumens: 16122.6 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (A_{in}): 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°	9012	9012	9012
5°	9302	9302	9265
10°	10129	10110	10018
15°	11494	11549	11380
20°	13302	13419	13187
25°	15316	15557	15096
30°	17540	17938	17330
35°	20628	21182	20450
40°	25212	26374	25212
45°	33301	35459	33430
50°	45029	49693	45650
55°	61548	69152	61897
60°	85758	95353	86085
65°	118271	133491	120336
70°	138972	178548	148426
75°	152896	185610	161393
80°	77322	135293	79628
85°	10004	36692	7719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	0.5
10°-20°	296.9	1.8
20°-30°	601.1	3.7
30°-40°	1007.8	6.3
40°-50°	1777.7	11.0
50°-60°	3134.9	19.4
60°-70°	4786.1	29.7
70°-80°	3999.3	24.8
80°-90°	434.6	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°	982.1	6.1
0°-40°	1989.9	12.3
0°-60°	6902.5	42.8
0°-90°	16122.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16122.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	861	863	861	858	858	84
15°	1031	1036	1036	1027	1021	297
25°	1290	1296	1310	1287	1271	599
35°	1570	1580	1612	1577	1556	997
45°	2188	2237	2329	2258	2196	1719
55°	3280	3435	3685	3463	3298	2972
65°	4644	4894	5241	4933	4725	4445
75°	3676	3883	4463	4131	3881	3540
85°	81	135	297	117	62	266
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°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	844.0	845.7	844.0	844.0	844.0	844.0	844.0	842.3	842.3	842.3	844.0
5°	860.9	862.6	860.9	862.6	862.6	862.6	862.6	860.9	860.9	860.9	860.9
7.5°	887.9	887.9	887.9	889.6	887.9	887.9	889.6	887.9	887.9	887.9	887.9
10°	926.7	925.0	925.0	925.0	925.0	925.0	926.7	926.7	926.7	925.0	925.0
12.5°	974.0	972.3	974.0	974.0	975.7	975.7	975.7	975.7	975.7	975.7	974.0
15°	1031.4	1031.4	1031.4	1033.0	1036.4	1036.4	1034.7	1036.4	1036.4	1036.4	1036.4
17.5°	1095.5	1098.9	1095.5	1097.2	1098.9	1097.2	1100.6	1102.3	1103.9	1102.3	1097.2
20°	1161.3	1163.0	1163.0	1163.0	1163.0	1166.4	1168.1	1168.1	1173.1	1171.5	1169.8
22.5°	1223.8	1227.2	1227.2	1228.9	1228.9	1233.9	1233.9	1233.9	1237.3	1240.7	1237.3
25°	1289.6	1287.9	1287.9	1291.3	1293.0	1299.7	1299.7	1303.1	1308.2	1309.9	1306.5
27.5°	1348.7	1347.0	1347.0	1352.1	1353.8	1362.2	1362.2	1369.0	1372.3	1374.0	1370.6
30°	1411.2	1411.2	1409.5	1414.5	1419.6	1426.3	1429.7	1436.5	1441.5	1443.2	1439.8
32.5°	1485.4	1482.0	1483.7	1487.1	1490.5	1497.2	1502.3	1510.7	1517.5	1519.2	1515.8
35°	1569.8	1564.8	1566.4	1569.8	1574.9	1585.0	1593.5	1598.5	1608.6	1612.0	1605.3
37.5°	1662.7	1664.4	1662.7	1671.1	1679.5	1691.4	1701.5	1708.2	1718.4	1723.4	1718.4
40°	1794.3	1789.3	1794.3	1802.8	1816.3	1831.5	1851.7	1856.8	1866.9	1877.0	1865.2
42.5°	1964.8	1961.4	1973.3	1980.0	1995.2	2012.1	2037.4	2050.9	2066.1	2072.8	2062.7
45°	2187.6	2187.6	2201.1	2202.8	2226.4	2248.4	2283.8	2300.7	2329.4	2329.4	2329.4
47.5°	2434.1	2444.2	2452.6	2469.5	2486.4	2526.9	2562.4	2599.5	2626.5	2629.9	2624.8
50°	2689.0	2699.1	2724.4	2748.0	2785.2	2835.8	2874.6	2923.6	2947.2	2967.5	2960.7
52.5°	2970.8	2972.5	3002.9	3033.3	3087.3	3143.0	3205.5	3256.1	3298.3	3316.9	3301.7
55°	3279.7	3283.1	3310.1	3342.2	3403.0	3467.1	3544.8	3597.1	3651.1	3684.9	3659.5
57.5°	3614.0	3615.7	3642.7	3681.5	3754.1	3818.2	3892.5	3966.8	4017.4	4047.8	4030.9
60°	3983.6	3992.1	4012.3	4061.3	4130.5	4198.0	4272.3	4338.1	4397.2	4429.3	4412.4
62.5°	4378.6	4387.1	4415.8	4454.6	4515.4	4589.6	4660.5	4744.9	4793.9	4829.3	4804.0
65°	4643.6	4658.8	4704.4	4756.7	4846.2	4942.4	5025.1	5139.9	5199.0	5241.2	5217.6
67.5°	4660.5	4669.0	4724.7	4804.0	4923.8	5069.0	5237.8	5416.7	5533.2	5588.9	5548.4
69°	4545.7	4557.6	4611.6	4701.0	4834.4	5003.2	5204.0	5426.9	5605.8	5688.5	5649.7
70°	4415.8	4441.1	4500.2	4598.1	4728.0	4905.3	5112.9	5350.9	5560.2	5673.3	5644.6
72.5°	4142.3	4149.1	4187.9	4265.5	4365.1	4512.0	4707.8	4932.3	5131.5	5293.5	5317.1
75°	3676.4	3698.4	3727.1	3779.4	3830.0	3936.4	4068.0	4221.6	4338.1	4463.0	4468.1
77.5°	2778.4	2844.2	2866.2	2878.0	2900.0	2984.4	3099.1	3232.5	3328.7	3349.0	3345.6
80°	1247.4	1335.2	1355.4	1451.7	1510.7	1650.8	1826.4	2030.6	2167.4	2182.6	2145.4
82.5°	244.8	261.6	305.5	381.5	519.9	602.6	717.4	860.9	992.5	1068.5	1022.9
85°	81.0	86.1	99.6	109.7	126.6	143.5	173.9	216.1	268.4	297.1	265.0
87.5°	32.1	32.1	37.1	40.5	43.9	43.9	43.9	40.5	38.8	32.1	28.7
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°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3
5°	860.9	859.2	859.2	857.5	857.5	857.5	857.5	857.5
7.5°	886.2	884.5	882.8	884.5	882.8	882.8	882.8	882.8
10°	925.0	921.6	920.0	918.3	918.3	918.3	916.6	916.6
12.5°	970.6	970.6	968.9	967.2	963.8	965.5	963.8	960.5
15°	1033.0	1029.7	1028.0	1026.3	1022.9	1022.9	1022.9	1021.2
17.5°	1095.5	1092.1	1092.1	1087.1	1085.4	1085.4	1085.4	1087.1
20°	1164.7	1159.6	1156.3	1152.9	1149.5	1151.2	1147.8	1151.2
22.5°	1233.9	1227.2	1223.8	1218.7	1213.7	1213.7	1212.0	1208.6
25°	1301.4	1293.0	1289.6	1284.6	1277.8	1277.8	1274.4	1271.1
27.5°	1365.6	1357.1	1353.8	1343.6	1336.9	1335.2	1331.8	1330.1
30°	1436.5	1426.3	1421.3	1411.2	1401.0	1399.3	1394.3	1394.3
32.5°	1510.7	1500.6	1497.2	1482.0	1473.6	1473.6	1470.2	1466.9
35°	1603.6	1588.4	1585.0	1569.8	1558.0	1558.0	1554.6	1556.3
37.5°	1713.3	1701.5	1689.7	1677.9	1664.4	1662.7	1659.3	1655.9
40°	1860.2	1846.7	1833.1	1816.3	1804.5	1801.1	1796.0	1794.3
42.5°	2056.0	2042.5	2015.5	2001.9	1990.1	1980.0	1978.3	1976.6
45°	2305.8	2288.9	2270.3	2245.0	2229.8	2207.9	2204.5	2196.1
47.5°	2606.2	2574.2	2542.1	2520.2	2496.5	2471.2	2466.1	2452.6
50°	2925.3	2900.0	2845.9	2810.5	2773.4	2748.0	2731.2	2726.1
52.5°	3267.9	3220.7	3166.7	3119.4	3065.4	3031.6	3001.2	2992.8
55°	3625.8	3558.3	3490.7	3435.0	3381.0	3340.5	3311.8	3298.3
57.5°	3983.6	3909.4	3835.1	3774.3	3728.8	3676.4	3647.7	3641.0
60°	4356.7	4285.8	4209.8	4149.1	4093.4	4047.8	4030.9	3998.8
62.5°	4751.7	4677.4	4606.5	4547.4	4476.5	4444.5	4415.8	4397.2
65°	5139.9	5053.8	4964.4	4901.9	4831.0	4785.4	4750.0	4724.7
67.5°	5440.4	5310.4	5190.5	5085.9	4989.7	4918.8	4873.2	4849.6
69°	5524.8	5362.7	5209.1	5072.4	4959.3	4880.0	4829.3	4805.7
70°	5514.6	5335.7	5166.9	5016.7	4893.5	4809.1	4760.1	4716.2
72.5°	5202.4	5038.6	4851.3	4687.5	4576.1	4495.1	4446.1	4422.5
75°	4439.4	4329.7	4194.6	4068.0	3987.0	3939.7	3879.0	3880.7
77.5°	3232.5	3235.9	3144.7	3014.7	2923.6	2906.7	2879.7	2852.7
80°	2005.3	1845.0	1740.3	1600.2	1497.2	1407.8	1369.0	1284.6
82.5°	925.0	722.5	560.4	423.7	325.8	254.9	222.8	182.3
85°	205.9	157.0	130.0	104.7	89.5	82.7	67.5	62.5
87.5°	28.7	25.3	23.6	21.9	18.6	13.5	10.1	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)