

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P183612

Luminaire Tested: **LSM55M8035D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27020)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSM55M8035D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE, MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS  
Light Source: 80 CRI, 3500K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

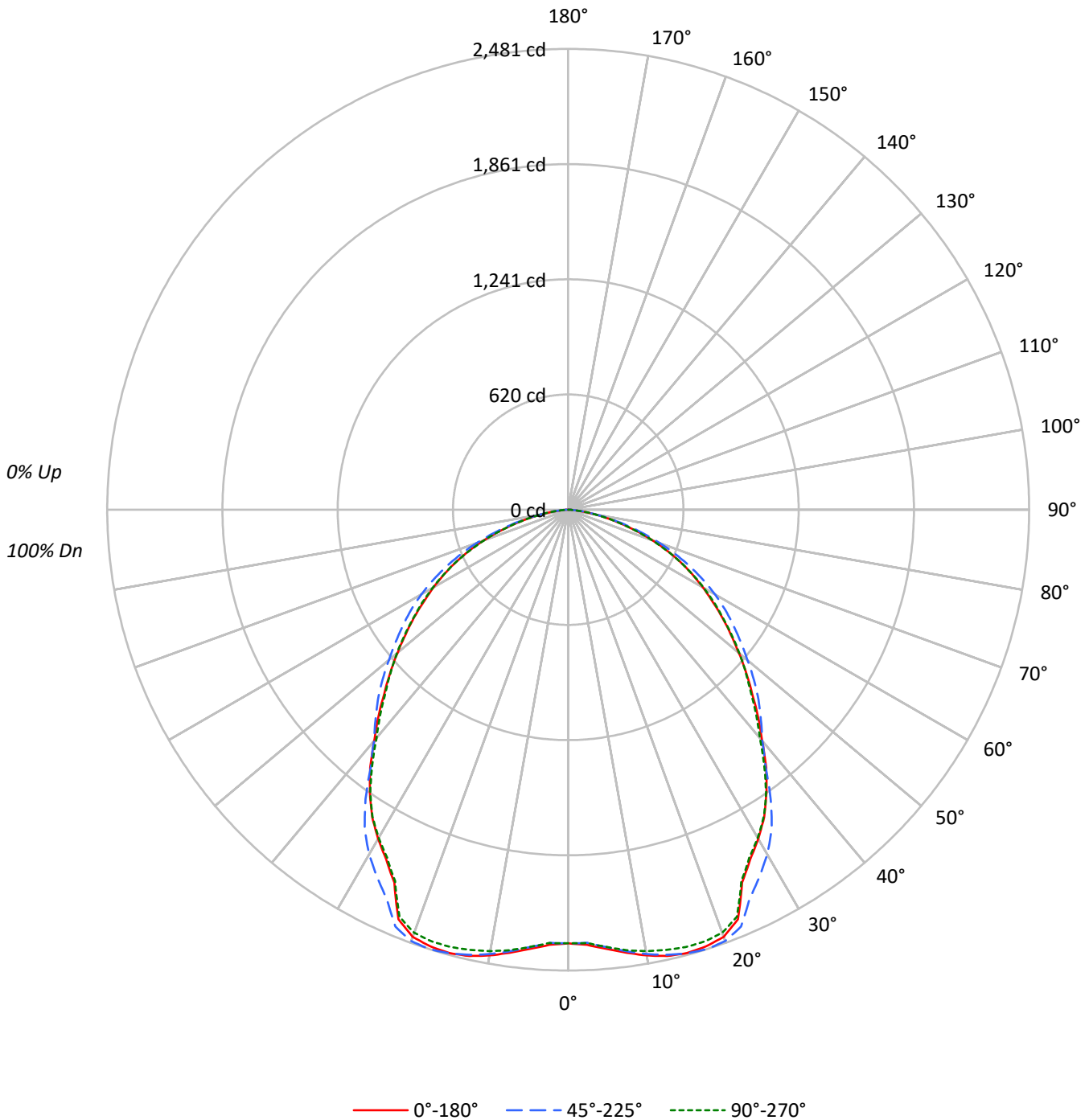
Lumens per Lamp: N/A  
Luminaire Lumens: 6325.3 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.33  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
CIE Type: Direct

Input Watts (W): 56.22  
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	33	28	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	25277	25277	25277
5°	25795	25694	25685
10°	26794	26712	26536
15°	27705	27724	27328
20°	28197	28478	27936
25°	26454	27610	26354
30°	25572	26781	25498
35°	24591	25125	24546
40°	22957	22968	22684
45°	21446	22179	21279
50°	20194	21226	20278
55°	19123	20488	19202
60°	18132	19752	18277
65°	17057	18523	17037
70°	15302	16527	15223
75°	12589	13577	12627
80°	9173	9803	9435
85°	5330	5641	5541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.9	3.6
10°-20°	699.9	11.1
20°-30°	1051.0	16.6
30°-40°	1150.4	18.2
40°-50°	1125.3	17.8
50°-60°	971.0	15.4
60°-70°	694.2	11.0
70°-80°	341.0	5.4
80°-90°	63.6	1.0
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°	1979.8	31.3
0°-40°	3130.2	49.5
0°-60°	5226.5	82.6
0°-90°	6325.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6325.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2334	2334	2334	2334	2334	
5°	2373	2393	2364	2382	2363	229
15°	2471	2505	2473	2476	2438	697
25°	2214	2345	2311	2330	2206	1032
35°	1860	1832	1901	1810	1857	1158
45°	1400	1494	1448	1477	1390	1084
55°	1013	1104	1085	1094	1017	906
65°	666	702	723	695	665	656
75°	301	318	324	312	302	323
85°	43	45	45	45	45	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3
2.5°	2345.2	2364.6	2348.6	2345.2	2331.8	2363.7	2351.9	2354.5	2345.2	2346.9	2334.3
5°	2373.0	2393.1	2378.0	2373.8	2360.3	2393.1	2381.4	2383.0	2373.8	2376.3	2363.7
7.5°	2405.7	2426.8	2410.8	2408.3	2395.7	2428.4	2417.5	2419.2	2409.1	2410.8	2398.2
10°	2436.8	2459.5	2443.6	2441.9	2429.3	2464.6	2452.8	2454.5	2442.7	2443.6	2429.3
12.5°	2461.2	2484.8	2468.8	2468.8	2457.0	2490.6	2481.4	2483.1	2471.3	2471.3	2454.5
15°	2471.3	2495.7	2478.9	2481.4	2469.6	2504.9	2496.5	2497.4	2487.3	2489.8	2473.0
17.5°	2465.4	2489.8	2474.7	2476.3	2465.4	2501.6	2493.2	2496.5	2488.1	2494.8	2480.6
20°	2446.9	2468.8	2450.3	2452.0	2443.6	2479.7	2473.8	2479.7	2473.8	2483.9	2471.3
22.5°	2387.2	2407.4	2397.3	2408.3	2406.6	2445.2	2441.9	2446.9	2437.7	2442.7	2429.3
25°	2214.1	2240.1	2236.8	2267.9	2297.3	2345.2	2341.9	2343.5	2324.2	2325.9	2310.8
27.5°	2121.6	2143.5	2130.9	2132.6	2120.8	2147.7	2149.4	2191.4	2216.6	2239.3	2229.2
30°	2045.1	2061.9	2031.7	2010.7	1980.4	2007.3	2005.6	2042.6	2087.2	2140.1	2141.8
32.5°	1962.8	1967.8	1924.9	1896.3	1885.4	1914.0	1912.3	1923.2	1956.9	2014.0	2039.2
35°	1860.2	1864.4	1811.4	1803.0	1803.0	1831.6	1824.9	1828.3	1846.8	1883.7	1900.6
37.5°	1750.1	1744.2	1713.9	1715.6	1722.3	1748.4	1743.4	1743.4	1749.2	1766.1	1745.0
40°	1624.0	1630.7	1621.5	1629.9	1635.8	1661.0	1658.5	1660.1	1657.6	1648.4	1624.8
42.5°	1512.2	1529.0	1539.1	1549.2	1550.0	1574.4	1572.7	1579.4	1566.8	1542.5	1534.9
45°	1400.4	1420.6	1448.3	1468.5	1470.2	1493.7	1493.7	1495.4	1469.3	1451.7	1448.3
47.5°	1299.5	1320.6	1349.1	1379.4	1384.4	1408.8	1408.8	1404.6	1376.9	1365.9	1355.0
50°	1198.7	1225.6	1252.5	1288.6	1291.1	1309.6	1310.5	1306.3	1293.7	1280.2	1260.0
52.5°	1102.8	1135.6	1161.7	1191.1	1192.8	1207.9	1204.6	1207.9	1209.6	1194.5	1170.1
55°	1012.9	1046.5	1069.2	1090.2	1094.4	1104.5	1097.8	1108.7	1118.8	1105.4	1085.2
57.5°	920.4	956.6	975.9	990.2	993.6	1002.0	995.2	1009.5	1023.0	1014.6	1001.1
60°	837.2	865.8	879.2	892.7	893.5	901.9	896.1	910.3	925.5	921.3	912.0
62.5°	751.5	771.7	781.7	796.0	791.8	800.2	802.8	815.4	826.3	827.1	819.6
65°	665.7	676.7	685.1	693.5	695.2	701.9	704.4	709.4	726.3	727.9	722.9
67.5°	575.0	581.7	589.2	596.8	596.0	602.7	609.4	614.5	625.4	629.6	622.9
70°	483.3	491.7	495.9	499.3	498.5	505.2	511.1	515.3	525.4	527.9	522.0
72.5°	390.9	399.3	402.6	403.5	402.6	410.2	415.2	417.8	426.2	430.4	421.1
75°	300.9	311.9	313.5	311.9	311.0	317.7	320.3	324.5	330.3	331.2	324.5
77.5°	219.4	228.6	230.3	227.8	226.1	231.2	232.8	237.0	240.4	242.1	235.4
80°	147.1	156.3	155.5	154.7	152.1	155.5	158.0	159.7	162.2	162.2	157.2
82.5°	88.3	94.1	93.3	94.1	91.6	92.5	94.1	96.7	95.8	97.5	94.1
85°	42.9	45.4	45.4	45.4	44.6	45.4	46.2	47.9	46.2	47.9	45.4
87.5°	15.1	16.0	15.1	15.1	15.1	15.1	16.0	16.0	15.1	16.0	15.1
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3	2334.3
2.5°	2351.9	2338.5	2351.9	2346.1	2353.6	2351.1	2351.9	2361.2	2340.2	2335.1
5°	2381.4	2367.1	2380.5	2376.3	2382.2	2379.7	2381.4	2390.6	2368.8	2362.9
7.5°	2415.0	2399.9	2413.3	2407.4	2413.3	2410.8	2411.6	2419.2	2396.5	2391.4
10°	2446.1	2430.1	2441.9	2436.0	2439.4	2436.8	2438.5	2443.6	2419.2	2413.3
12.5°	2470.5	2454.5	2466.3	2459.5	2461.2	2457.9	2457.0	2459.5	2434.3	2427.6
15°	2490.6	2474.7	2483.1	2476.3	2475.5	2470.5	2468.8	2469.6	2444.4	2437.7
17.5°	2496.5	2478.0	2483.1	2475.5	2473.0	2468.8	2467.1	2468.8	2444.4	2437.7
20°	2484.8	2462.9	2465.4	2456.2	2452.8	2449.4	2449.4	2452.0	2428.4	2424.2
22.5°	2444.4	2425.9	2431.8	2425.9	2422.6	2419.2	2413.3	2407.4	2377.2	2371.3
25°	2326.7	2314.1	2336.0	2339.3	2330.1	2312.4	2279.7	2254.4	2210.7	2205.7
27.5°	2240.1	2214.1	2188.0	2155.2	2135.9	2128.3	2133.4	2142.6	2119.9	2111.5
30°	2143.5	2087.2	2036.7	2003.1	1990.5	1988.8	2009.0	2033.4	2037.6	2039.2
32.5°	2023.3	1951.8	1913.2	1902.2	1893.8	1891.3	1898.0	1925.8	1943.4	1959.4
35°	1887.1	1837.5	1817.3	1818.2	1809.8	1806.4	1802.2	1819.0	1837.5	1856.8
37.5°	1760.2	1738.3	1732.4	1735.8	1726.6	1721.5	1716.5	1720.7	1726.6	1733.3
40°	1640.8	1645.9	1649.2	1651.7	1640.0	1636.6	1632.4	1630.7	1620.6	1604.7
42.5°	1539.1	1552.6	1567.7	1567.7	1555.1	1553.4	1554.2	1549.2	1518.9	1497.1
45°	1451.7	1456.7	1482.8	1487.8	1476.9	1474.4	1475.2	1459.2	1411.3	1389.5
47.5°	1365.9	1368.5	1392.0	1403.8	1392.0	1389.5	1392.0	1358.4	1306.3	1295.3
50°	1279.4	1286.1	1296.2	1307.1	1296.2	1295.3	1292.8	1260.9	1209.6	1203.7
52.5°	1191.9	1205.4	1200.3	1202.9	1196.1	1197.0	1199.5	1166.7	1119.7	1109.6
55°	1102.8	1115.4	1102.8	1096.1	1093.6	1096.1	1101.2	1070.9	1033.9	1017.1
57.5°	1014.6	1022.1	1008.7	995.2	991.0	996.9	1001.1	975.9	944.0	931.4
60°	923.0	921.3	910.3	897.7	889.3	896.1	902.8	880.1	851.5	843.9
62.5°	826.3	824.6	811.2	800.2	791.8	796.9	803.6	781.7	762.4	755.7
65°	727.1	725.4	711.1	702.7	695.2	696.8	704.4	684.2	672.5	664.9
67.5°	631.3	625.4	611.1	606.1	596.8	600.2	605.2	589.2	578.3	571.6
70°	530.4	525.4	512.8	507.7	500.1	501.8	506.9	496.8	485.0	480.8
72.5°	427.9	427.0	415.2	408.5	404.3	405.2	409.4	404.3	393.4	390.0
75°	328.7	331.2	321.9	316.1	311.9	311.9	316.9	317.7	306.0	301.8
77.5°	242.1	242.1	234.5	235.4	228.6	228.6	232.0	235.4	222.8	220.2
80°	162.2	161.4	158.9	156.3	153.0	153.8	156.3	160.6	150.5	151.3
82.5°	95.8	95.8	95.8	94.1	91.6	90.8	94.1	97.5	90.8	90.8
85°	47.1	46.2	46.2	46.2	44.6	43.7	46.2	47.9	43.7	44.6
87.5°	16.0	15.1	15.1	16.0	15.1	15.1	15.1	15.1	14.3	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)