

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: P183607

Luminaire Tested: **LSM55M8030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P183607
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: LSM55M8030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE, MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: 80 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5967.5 lumens
Efficiency: N/A
Efficacy: 106.1 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

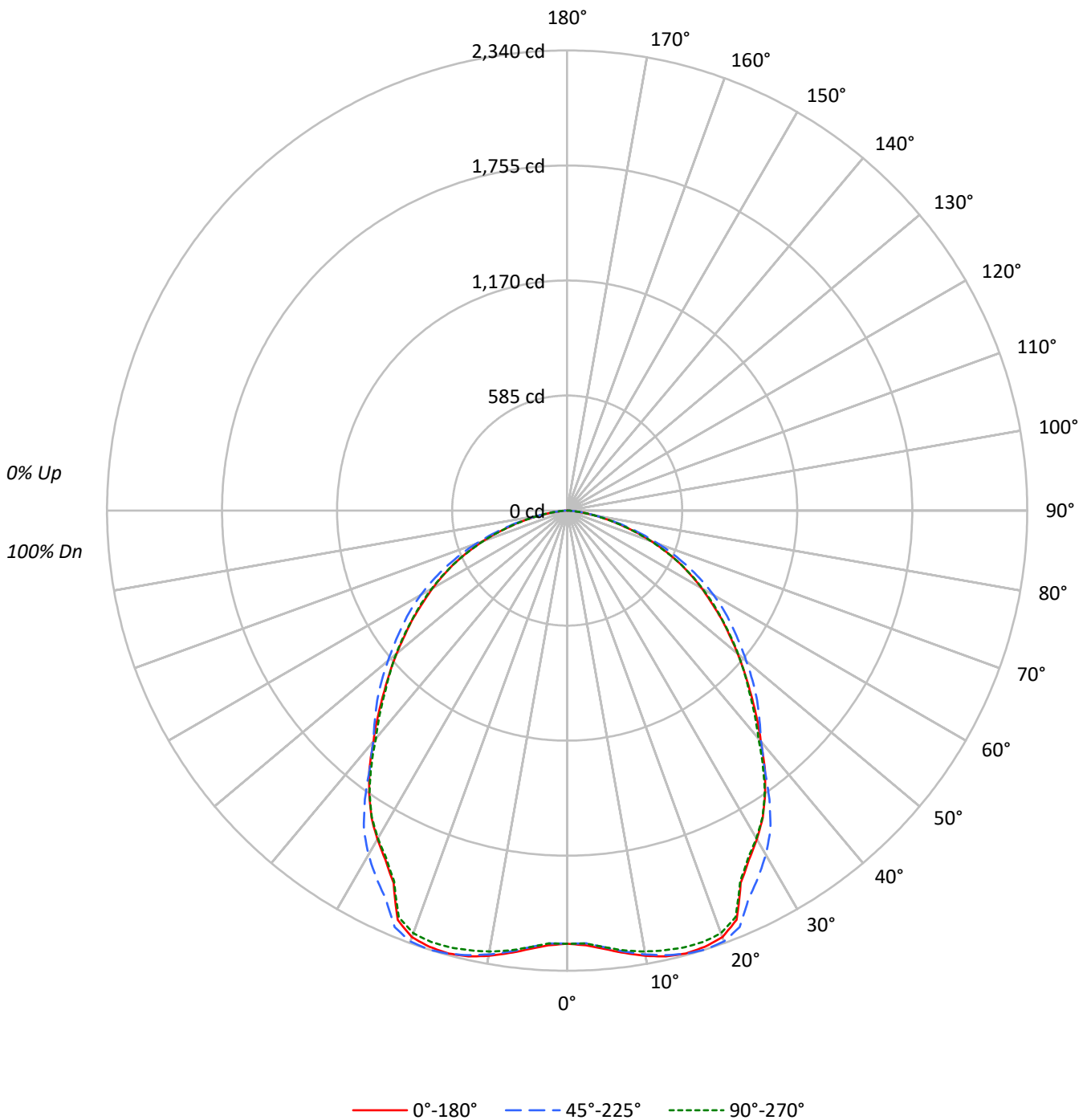
Input Watts (W): 56.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23847	23847	23847
5°	24335	24240	24231
10°	25279	25201	25035
15°	26138	26156	25782
20°	26602	26867	26356
25°	24957	26047	24863
30°	24125	25265	24056
35°	23200	23702	23158
40°	21658	21669	21400
45°	20233	20925	20075
50°	19052	20027	19131
55°	18041	19329	18116
60°	17107	18634	17244
65°	16094	17475	16073
70°	14437	15593	14361
75°	11878	12807	11912
80°	8656	9248	8899
85°	5020	5318	5218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	3.6
10°-20°	660.3	11.1
20°-30°	991.5	16.6
30°-40°	1085.3	18.2
40°-50°	1061.7	17.8
50°-60°	916.1	15.4
60°-70°	654.9	11.0
70°-80°	321.7	5.4
80°-90°	60.0	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°	1867.8	31.3
0°-40°	2953.1	49.5
0°-60°	4930.9	82.6
0°-90°	5967.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5967.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2239	2258	2230	2247	2229	216
15°	2332	2363	2333	2336	2300	658
25°	2089	2213	2180	2198	2081	973
35°	1755	1728	1793	1707	1752	1093
45°	1321	1409	1366	1393	1311	1023
55°	956	1042	1024	1032	960	855
65°	628	662	682	656	627	619
75°	284	300	306	294	285	305
85°	40	43	43	42	42	56
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°	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2
2.5°	2212.6	2230.8	2215.7	2212.6	2199.9	2230.0	2218.9	2221.3	2212.6	2214.1	2202.2
5°	2238.7	2257.8	2243.5	2239.5	2226.8	2257.8	2246.7	2248.2	2239.5	2241.9	2230.0
7.5°	2269.7	2289.5	2274.4	2272.0	2260.1	2291.1	2280.8	2282.3	2272.8	2274.4	2262.5
10°	2299.0	2320.4	2305.3	2303.8	2291.9	2325.2	2314.1	2315.6	2304.5	2305.3	2291.9
12.5°	2322.0	2344.2	2329.1	2329.1	2318.0	2349.7	2341.0	2342.6	2331.5	2331.5	2315.6
15°	2331.5	2354.5	2338.6	2341.0	2329.9	2363.2	2355.3	2356.1	2346.6	2349.0	2333.1
17.5°	2326.0	2349.0	2334.7	2336.3	2326.0	2360.1	2352.1	2355.3	2347.4	2353.7	2340.2
20°	2308.5	2329.1	2311.7	2313.3	2305.3	2339.4	2333.9	2339.4	2333.9	2343.4	2331.5
22.5°	2252.2	2271.2	2261.7	2272.0	2270.4	2306.9	2303.8	2308.5	2299.8	2304.5	2291.9
25°	2088.8	2113.4	2110.3	2139.6	2167.4	2212.6	2209.4	2211.0	2192.7	2194.3	2180.0
27.5°	2001.6	2022.2	2010.3	2011.9	2000.8	2026.2	2027.8	2067.4	2091.2	2112.6	2103.1
30°	1929.4	1945.3	1916.8	1896.9	1868.4	1893.8	1892.2	1927.1	1969.1	2019.1	2020.6
32.5°	1851.7	1856.5	1816.0	1789.1	1778.8	1805.7	1804.1	1814.5	1846.2	1900.1	1923.9
35°	1755.0	1758.9	1709.0	1701.0	1701.0	1728.0	1721.7	1724.8	1742.3	1777.2	1793.0
37.5°	1651.1	1645.5	1617.0	1618.6	1624.9	1649.5	1644.7	1644.7	1650.3	1666.2	1646.3
40°	1532.1	1538.5	1529.8	1537.7	1543.2	1567.0	1564.6	1566.2	1563.9	1555.1	1532.9
42.5°	1426.7	1442.5	1452.0	1461.6	1462.3	1485.3	1483.8	1490.1	1478.2	1455.2	1448.1
45°	1321.2	1340.2	1366.4	1385.4	1387.0	1409.2	1409.2	1410.8	1386.2	1369.6	1366.4
47.5°	1226.0	1245.9	1272.8	1301.4	1306.1	1329.1	1329.1	1325.2	1299.0	1288.7	1278.4
50°	1130.9	1156.2	1181.6	1215.7	1218.1	1235.5	1236.3	1232.4	1220.5	1207.8	1188.8
52.5°	1040.5	1071.4	1096.0	1123.7	1125.3	1139.6	1136.4	1139.6	1141.2	1126.9	1103.9
55°	955.6	987.3	1008.7	1028.6	1032.5	1042.0	1035.7	1046.0	1055.5	1042.8	1023.8
57.5°	868.4	902.5	920.7	934.2	937.4	945.3	938.9	952.4	965.1	957.2	944.5
60°	789.9	816.8	829.5	842.2	843.0	850.9	845.4	858.9	873.1	869.2	860.4
62.5°	709.0	728.0	737.5	751.0	747.0	755.0	757.3	769.2	779.5	780.3	773.2
65°	628.1	638.4	646.3	654.2	655.8	662.2	664.6	669.3	685.2	686.8	682.0
67.5°	542.4	548.8	555.9	563.1	562.3	568.6	574.9	579.7	590.0	594.0	587.6
70°	456.0	463.9	467.9	471.1	470.3	476.6	482.2	486.1	495.6	498.0	492.5
72.5°	368.8	376.7	379.9	380.7	379.9	387.0	391.8	394.1	402.1	406.0	397.3
75°	283.9	294.2	295.8	294.2	293.4	299.8	302.1	306.1	311.7	312.5	306.1
77.5°	207.0	215.7	217.3	214.9	213.3	218.1	219.7	223.6	226.8	228.4	222.0
80°	138.8	147.5	146.7	145.9	143.5	146.7	149.1	150.7	153.1	153.1	148.3
82.5°	83.3	88.8	88.0	88.8	86.4	87.2	88.8	91.2	90.4	92.0	88.8
85°	40.4	42.8	42.8	42.8	42.0	42.8	43.6	45.2	43.6	45.2	42.8
87.5°	14.3	15.1	14.3	14.3	14.3	14.3	15.1	15.1	14.3	15.1	14.3
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°	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2	2202.2
2.5°	2218.9	2206.2	2218.9	2213.3	2220.5	2218.1	2218.9	2227.6	2207.8	2203.0
5°	2246.7	2233.2	2245.9	2241.9	2247.4	2245.1	2246.7	2255.4	2234.8	2229.2
7.5°	2278.4	2264.1	2276.8	2271.2	2276.8	2274.4	2275.2	2282.3	2260.9	2256.2
10°	2307.7	2292.7	2303.8	2298.2	2301.4	2299.0	2300.6	2305.3	2282.3	2276.8
12.5°	2330.7	2315.6	2326.8	2320.4	2322.0	2318.8	2318.0	2320.4	2296.6	2290.3
15°	2349.7	2334.7	2342.6	2336.3	2335.5	2330.7	2329.1	2329.9	2306.1	2299.8
17.5°	2355.3	2337.9	2342.6	2335.5	2333.1	2329.1	2327.5	2329.1	2306.1	2299.8
20°	2344.2	2323.6	2326.0	2317.2	2314.1	2310.9	2310.9	2313.3	2291.1	2287.1
22.5°	2306.1	2288.7	2294.2	2288.7	2285.5	2282.3	2276.8	2271.2	2242.7	2237.1
25°	2195.1	2183.2	2203.8	2207.0	2198.3	2181.6	2150.7	2126.9	2085.7	2080.9
27.5°	2113.4	2088.8	2064.3	2033.3	2015.1	2008.0	2012.7	2021.4	2000.0	1992.1
30°	2022.2	1969.1	1921.5	1889.8	1877.9	1876.3	1895.3	1918.3	1922.3	1923.9
32.5°	1908.8	1841.4	1804.9	1794.6	1786.7	1784.3	1790.7	1816.8	1833.5	1848.6
35°	1780.4	1733.6	1714.5	1715.3	1707.4	1704.2	1700.3	1716.1	1733.6	1751.8
37.5°	1660.6	1640.0	1634.4	1637.6	1628.9	1624.1	1619.4	1623.3	1628.9	1635.2
40°	1548.0	1552.8	1555.9	1558.3	1547.2	1544.0	1540.1	1538.5	1529.0	1513.9
42.5°	1452.0	1464.7	1479.0	1479.0	1467.1	1465.5	1466.3	1461.6	1433.0	1412.4
45°	1369.6	1374.3	1398.9	1403.7	1393.4	1391.0	1391.8	1376.7	1331.5	1310.9
47.5°	1288.7	1291.1	1313.3	1324.4	1313.3	1310.9	1313.3	1281.5	1232.4	1222.1
50°	1207.0	1213.3	1222.9	1233.2	1222.9	1222.1	1219.7	1189.5	1141.2	1135.6
52.5°	1124.5	1137.2	1132.4	1134.8	1128.5	1129.3	1131.7	1100.7	1056.3	1046.8
55°	1040.5	1052.4	1040.5	1034.1	1031.7	1034.1	1038.9	1010.3	975.4	959.6
57.5°	957.2	964.3	951.6	938.9	935.0	940.5	944.5	920.7	890.6	878.7
60°	870.7	869.2	858.9	847.0	839.0	845.4	851.7	830.3	803.3	796.2
62.5°	779.5	778.0	765.3	755.0	747.0	751.8	758.1	737.5	719.3	712.9
65°	686.0	684.4	670.9	663.0	655.8	657.4	664.6	645.5	634.4	627.3
67.5°	595.6	590.0	576.5	571.8	563.1	566.2	571.0	555.9	545.6	539.3
70°	500.4	495.6	483.7	479.0	471.9	473.4	478.2	468.7	457.6	453.6
72.5°	403.7	402.9	391.8	385.4	381.4	382.2	386.2	381.4	371.1	368.0
75°	310.1	312.5	303.7	298.2	294.2	294.2	299.0	299.8	288.7	284.7
77.5°	228.4	228.4	221.3	222.0	215.7	215.7	218.9	222.0	210.2	207.8
80°	153.1	152.3	149.9	147.5	144.3	145.1	147.5	151.5	142.0	142.7
82.5°	90.4	90.4	90.4	88.8	86.4	85.6	88.8	92.0	85.6	85.6
85°	44.4	43.6	43.6	43.6	42.0	41.2	43.6	45.2	41.2	42.0
87.5°	15.1	14.3	14.3	15.1	14.3	14.3	14.3	14.3	13.5	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)