

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: P183627

Luminaire Tested: **LSM55M9030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P183627
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: LSM55M9030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE, MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: 90 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4908.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

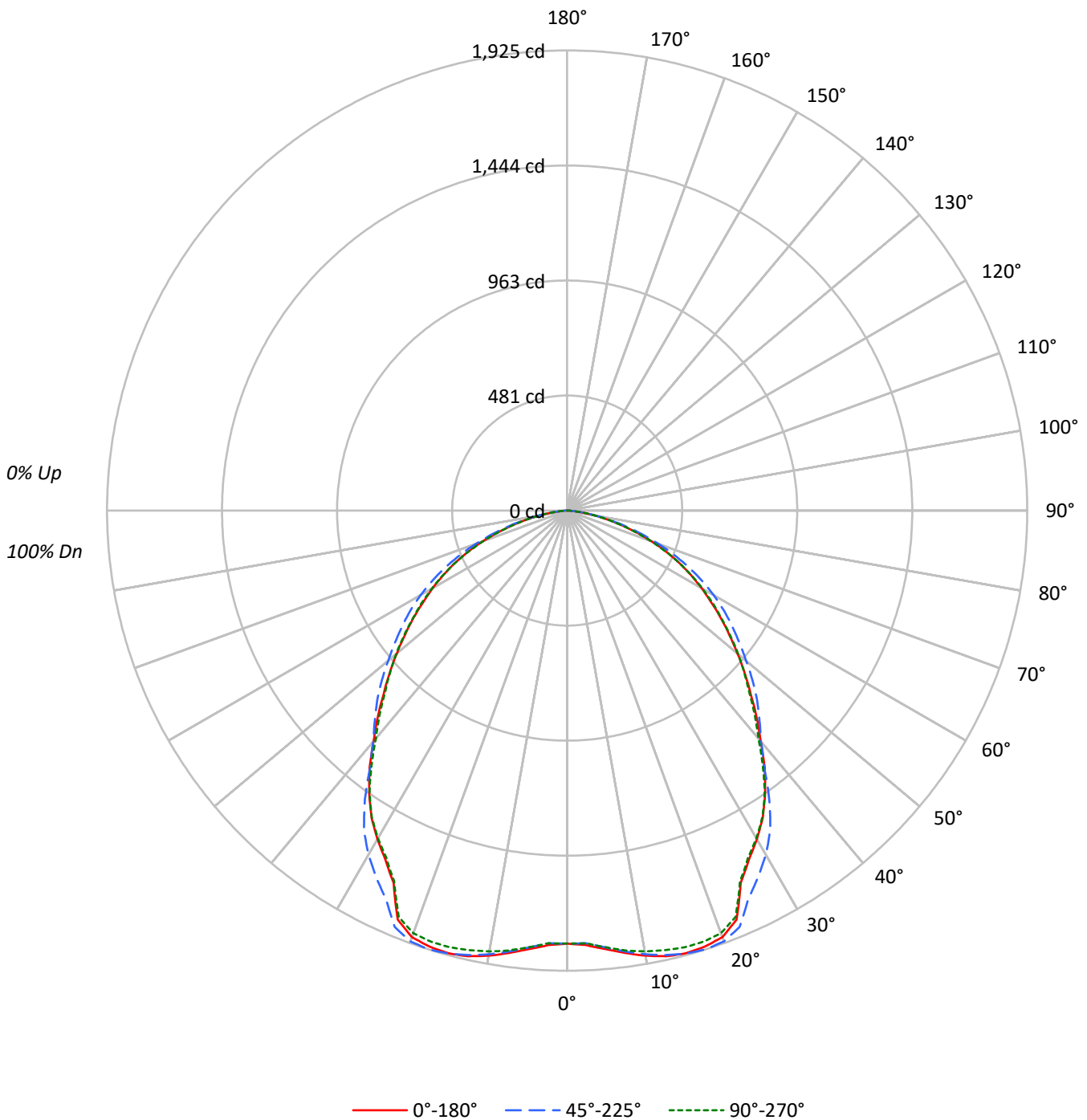
Input Watts (W): 56.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19613	19613	19613
5°	20014	19937	19929
10°	20791	20726	20591
15°	21498	21512	21205
20°	21879	22098	21676
25°	20527	21423	20449
30°	19842	20780	19785
35°	19081	19495	19046
40°	17813	17822	17601
45°	16640	17210	16510
50°	15669	16471	15735
55°	14837	15896	14899
60°	14069	15327	14181
65°	13237	14372	13219
70°	11873	12823	11813
75°	9769	10535	9799
80°	7115	7608	7321
85°	4137	4373	4299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.6
10°-20°	543.1	11.1
20°-30°	815.5	16.6
30°-40°	892.6	18.2
40°-50°	873.2	17.8
50°-60°	753.4	15.4
60°-70°	538.6	11.0
70°-80°	264.6	5.4
80°-90°	49.3	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°	1536.2	31.3
0°-40°	2428.8	49.5
0°-60°	4055.4	82.6
0°-90°	4908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1841	1857	1834	1848	1833	177
15°	1918	1944	1919	1921	1892	541
25°	1718	1820	1793	1808	1712	801
35°	1443	1421	1475	1404	1441	899
45°	1087	1159	1124	1146	1078	841
55°	786	857	842	849	789	703
65°	517	545	561	539	516	509
75°	234	246	252	242	234	251
85°	33	35	35	35	35	46
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°	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2
2.5°	1819.7	1834.7	1822.3	1819.7	1809.3	1834.1	1824.9	1826.9	1819.7	1821.0	1811.2
5°	1841.2	1856.9	1845.2	1841.9	1831.5	1856.9	1847.8	1849.1	1841.9	1843.9	1834.1
7.5°	1866.7	1883.0	1870.6	1868.6	1858.9	1884.3	1875.8	1877.1	1869.3	1870.6	1860.8
10°	1890.8	1908.4	1896.0	1894.7	1884.9	1912.3	1903.2	1904.5	1895.4	1896.0	1884.9
12.5°	1909.7	1928.0	1915.6	1915.6	1906.5	1932.6	1925.4	1926.7	1917.6	1917.6	1904.5
15°	1917.6	1936.5	1923.4	1925.4	1916.3	1943.6	1937.1	1937.8	1929.9	1931.9	1918.9
17.5°	1913.0	1931.9	1920.2	1921.5	1913.0	1941.0	1934.5	1937.1	1930.6	1935.8	1924.7
20°	1898.6	1915.6	1901.3	1902.6	1896.0	1924.1	1919.5	1924.1	1919.5	1927.3	1917.6
22.5°	1852.3	1868.0	1860.2	1868.6	1867.3	1897.3	1894.7	1898.6	1891.5	1895.4	1884.9
25°	1718.0	1738.2	1735.6	1759.7	1782.5	1819.7	1817.1	1818.4	1803.4	1804.7	1793.0
27.5°	1646.2	1663.2	1653.4	1654.7	1645.6	1666.4	1667.8	1700.4	1719.9	1737.5	1729.7
30°	1586.9	1599.9	1576.4	1560.1	1536.7	1557.5	1556.2	1584.9	1619.5	1660.6	1661.9
32.5°	1523.0	1526.9	1493.6	1471.4	1463.0	1485.1	1483.8	1492.3	1518.4	1562.7	1582.3
35°	1443.4	1446.6	1405.6	1399.0	1399.0	1421.2	1416.0	1418.6	1432.9	1461.6	1474.7
37.5°	1357.9	1353.4	1329.9	1331.2	1336.4	1356.6	1352.7	1352.7	1357.3	1370.3	1354.0
40°	1260.1	1265.3	1258.2	1264.7	1269.2	1288.8	1286.9	1288.2	1286.2	1279.0	1260.8
42.5°	1173.4	1186.4	1194.2	1202.1	1202.7	1221.6	1220.3	1225.5	1215.8	1196.8	1191.0
45°	1086.6	1102.3	1123.8	1139.4	1140.8	1159.0	1159.0	1160.3	1140.1	1126.4	1123.8
47.5°	1008.3	1024.7	1046.8	1070.3	1074.2	1093.1	1093.1	1089.9	1068.4	1059.9	1051.4
50°	930.1	951.0	971.8	999.9	1001.8	1016.2	1016.8	1013.6	1003.8	993.3	977.7
52.5°	855.7	881.2	901.4	924.2	925.5	937.3	934.6	937.3	938.6	926.8	907.9
55°	785.9	812.0	829.6	845.9	849.2	857.0	851.8	860.3	868.1	857.7	842.0
57.5°	714.2	742.2	757.2	768.3	770.9	777.5	772.2	783.3	793.8	787.2	776.8
60°	649.6	671.8	682.2	692.7	693.3	699.8	695.3	706.4	718.1	714.8	707.7
62.5°	583.1	598.7	606.6	617.7	614.4	620.9	622.9	632.7	641.1	641.8	635.9
65°	516.6	525.0	531.6	538.1	539.4	544.6	546.6	550.5	563.5	564.8	560.9
67.5°	446.1	451.3	457.2	463.1	462.4	467.6	472.9	476.8	485.3	488.5	483.3
70°	375.0	381.6	384.8	387.4	386.8	392.0	396.6	399.8	407.6	409.6	405.0
72.5°	303.3	309.8	312.4	313.1	312.4	318.3	322.2	324.2	330.7	333.9	326.8
75°	233.5	242.0	243.3	242.0	241.3	246.5	248.5	251.8	256.3	257.0	251.8
77.5°	170.2	177.4	178.7	176.8	175.4	179.4	180.7	183.9	186.5	187.8	182.6
80°	114.1	121.3	120.7	120.0	118.1	120.7	122.6	123.9	125.9	125.9	122.0
82.5°	68.5	73.0	72.4	73.0	71.1	71.7	73.0	75.0	74.4	75.7	73.0
85°	33.3	35.2	35.2	35.2	34.6	35.2	35.9	37.2	35.9	37.2	35.2
87.5°	11.7	12.4	11.7	11.7	11.7	11.7	12.4	12.4	11.7	12.4	11.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2	1811.2
2.5°	1824.9	1814.5	1824.9	1820.4	1826.2	1824.3	1824.9	1832.1	1815.8	1811.9
5°	1847.8	1836.7	1847.1	1843.9	1848.4	1846.5	1847.8	1854.9	1838.0	1833.4
7.5°	1873.9	1862.1	1872.6	1868.0	1872.6	1870.6	1871.2	1877.1	1859.5	1855.6
10°	1898.0	1885.6	1894.7	1890.2	1892.8	1890.8	1892.1	1896.0	1877.1	1872.6
12.5°	1916.9	1904.5	1913.6	1908.4	1909.7	1907.1	1906.5	1908.4	1888.9	1883.6
15°	1932.6	1920.2	1926.7	1921.5	1920.8	1916.9	1915.6	1916.3	1896.7	1891.5
17.5°	1937.1	1922.8	1926.7	1920.8	1918.9	1915.6	1914.3	1915.6	1896.7	1891.5
20°	1928.0	1911.0	1913.0	1905.8	1903.2	1900.6	1900.6	1902.6	1884.3	1881.0
22.5°	1896.7	1882.3	1886.9	1882.3	1879.7	1877.1	1872.6	1868.0	1844.5	1839.9
25°	1805.4	1795.6	1812.5	1815.2	1808.0	1794.3	1768.8	1749.3	1715.4	1711.5
27.5°	1738.2	1718.0	1697.8	1672.3	1657.3	1651.4	1655.4	1662.5	1644.9	1638.4
30°	1663.2	1619.5	1580.4	1554.3	1544.5	1543.2	1558.8	1577.7	1581.0	1582.3
32.5°	1569.9	1514.5	1484.5	1476.0	1469.5	1467.5	1472.7	1494.3	1508.0	1520.3
35°	1464.3	1425.8	1410.1	1410.8	1404.3	1401.6	1398.4	1411.4	1425.8	1440.8
37.5°	1365.8	1348.8	1344.2	1346.9	1339.7	1335.8	1331.9	1335.1	1339.7	1344.9
40°	1273.2	1277.1	1279.7	1281.6	1272.5	1269.9	1266.6	1265.3	1257.5	1245.1
42.5°	1194.2	1204.7	1216.4	1216.4	1206.6	1205.3	1206.0	1202.1	1178.6	1161.6
45°	1126.4	1130.3	1150.5	1154.4	1146.0	1144.0	1144.7	1132.3	1095.1	1078.1
47.5°	1059.9	1061.8	1080.1	1089.2	1080.1	1078.1	1080.1	1054.0	1013.6	1005.1
50°	992.7	997.9	1005.7	1014.2	1005.7	1005.1	1003.1	978.3	938.6	934.0
52.5°	924.9	935.3	931.4	933.3	928.1	928.8	930.7	905.3	868.8	860.9
55°	855.7	865.5	855.7	850.5	848.6	850.5	854.4	830.9	802.2	789.2
57.5°	787.2	793.1	782.7	772.2	769.0	773.5	776.8	757.2	732.5	722.7
60°	716.1	714.8	706.4	696.6	690.1	695.3	700.5	682.9	660.7	654.8
62.5°	641.1	639.8	629.4	620.9	614.4	618.3	623.5	606.6	591.6	586.4
65°	564.2	562.9	551.8	545.3	539.4	540.7	546.6	530.9	521.8	515.9
67.5°	489.8	485.3	474.2	470.3	463.1	465.7	469.6	457.2	448.7	443.5
70°	411.6	407.6	397.9	393.9	388.1	389.4	393.3	385.5	376.3	373.1
72.5°	332.0	331.3	322.2	317.0	313.7	314.4	317.6	313.7	305.2	302.6
75°	255.0	257.0	249.8	245.2	242.0	242.0	245.9	246.5	237.4	234.2
77.5°	187.8	187.8	182.0	182.6	177.4	177.4	180.0	182.6	172.8	170.9
80°	125.9	125.2	123.3	121.3	118.7	119.4	121.3	124.6	116.7	117.4
82.5°	74.4	74.4	74.4	73.0	71.1	70.4	73.0	75.7	70.4	70.4
85°	36.5	35.9	35.9	35.9	34.6	33.9	35.9	37.2	33.9	34.6
87.5°	12.4	11.7	11.7	12.4	11.7	11.7	11.7	11.7	11.1	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)