

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: P127962

Luminaire Tested: **LSM80W8027D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24508)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSM80W8027D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 80 CRI, 2700K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7105.9 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 1.43 / 1.73  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
CIE Type: Direct

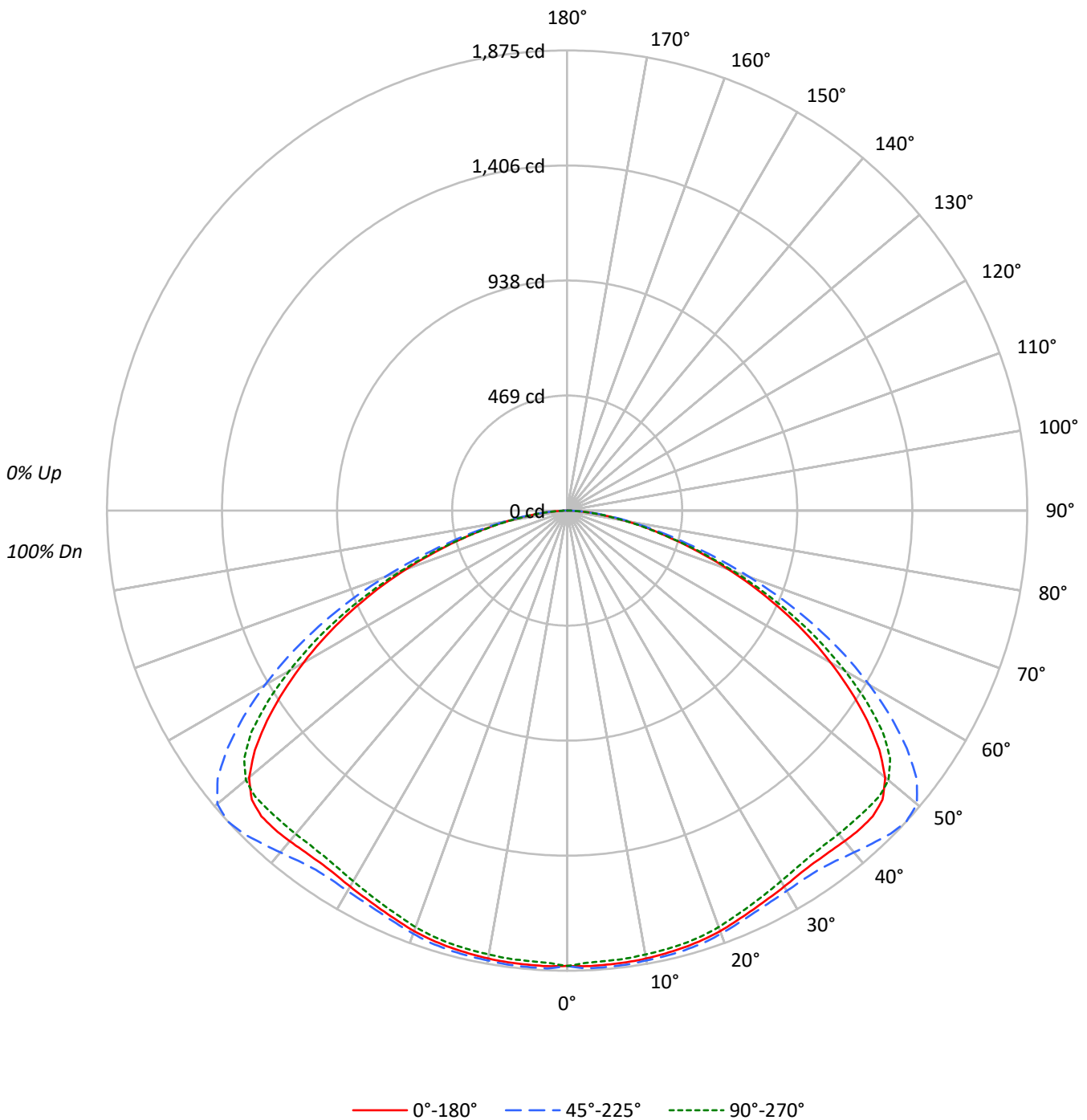
Input Watts (W): 88.06  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	73	60	50	43	71	59	50	43	57	49	43	54	48	42	53	47	42	39
6	67	53	44	37	65	52	43	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	22	34	27	22	33	27	22	20

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

	0°	45°	90°
0°	20092	20092	20092
5°	20190	20291	20023
10°	20378	20469	20197
15°	20661	20788	20489
20°	21013	21144	20812
25°	21430	21590	21185
30°	22119	22376	21798
35°	23167	23615	22760
40°	24861	25703	24322
45°	26980	28524	26397
50°	28501	31343	28796
55°	28192	31902	29629
60°	26885	30827	28310
65°	24928	28644	26035
70°	22109	24942	22793
75°	18547	20355	18761
80°	15135	16164	14817
85°	10859	11505	10611



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	2.5
10°-20°	520.6	7.3
20°-30°	829.1	11.7
30°-40°	1108.3	15.6
40°-50°	1388.2	19.5
50°-60°	1425.2	20.1
60°-70°	1041.6	14.7
70°-80°	505.6	7.1
80°-90°	110.7	1.6
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°	1526.4	21.5
0°-40°	2634.7	37.1
0°-60°	5448.1	76.7
0°-90°	7105.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7105.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1857	1851	1867	1844	1842	177
15°	1843	1839	1854	1833	1828	521
25°	1794	1792	1807	1783	1773	830
35°	1752	1762	1786	1748	1722	1104
45°	1762	1808	1863	1788	1724	1353
55°	1493	1575	1690	1644	1569	1327
65°	973	1036	1118	1076	1016	961
75°	443	467	486	467	448	479
85°	87	90	93	88	85	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1855.4	1855.4	1855.4	1855.4	1855.4
2.5°	1858.4	1852.3	1867.7	1845.1	1844.0
5°	1857.4	1851.2	1866.7	1844.0	1842.0
7.5°	1856.4	1851.2	1865.6	1843.0	1841.0
10°	1853.3	1847.1	1861.5	1839.9	1836.8
12.5°	1848.2	1843.0	1858.4	1835.8	1832.7
15°	1843.0	1838.9	1854.3	1832.7	1827.6
17.5°	1834.8	1830.7	1847.1	1824.5	1819.4
20°	1823.5	1819.4	1834.8	1813.2	1806.0
22.5°	1808.0	1803.9	1820.4	1797.8	1788.5
25°	1793.6	1791.6	1807.0	1783.4	1773.1
27.5°	1780.3	1780.3	1796.7	1771.0	1757.6
30°	1769.0	1771.0	1789.5	1760.7	1743.3
32.5°	1757.6	1763.8	1784.4	1751.5	1730.9
35°	1752.5	1761.8	1786.4	1748.4	1721.7
37.5°	1753.5	1770.0	1798.8	1752.5	1718.6
40°	1758.7	1783.4	1818.3	1762.8	1720.6
42.5°	1762.8	1796.7	1839.9	1775.1	1721.7
45°	1761.8	1808.0	1862.6	1788.5	1723.7
47.5°	1743.3	1802.9	1874.9	1798.8	1724.7
50°	1691.8	1763.8	1860.5	1790.6	1709.3
52.5°	1603.4	1683.6	1795.7	1739.1	1658.9
55°	1493.3	1574.6	1689.8	1643.5	1569.4
57.5°	1369.9	1452.2	1563.3	1518.0	1445.0
60°	1241.4	1318.5	1423.4	1378.1	1307.2
62.5°	1108.7	1179.7	1275.3	1232.1	1165.3
65°	972.9	1035.7	1117.9	1075.8	1016.1
67.5°	835.1	887.6	953.4	916.4	866.0
70°	698.3	739.5	787.8	758.0	719.9
72.5°	564.6	602.7	631.5	605.8	579.0
75°	443.3	466.9	486.5	466.9	448.4
77.5°	339.4	352.8	363.0	347.6	333.2
80°	242.7	255.1	259.2	247.9	237.6
82.5°	158.4	166.6	169.7	161.5	155.3
85°	87.4	90.5	92.6	88.4	85.4
87.5°	27.8	28.8	30.9	27.8	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)