

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: P127956

Luminaire Tested: **LSM70W8035D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127956  
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: LSM70W8035D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 80 CRI, 3500K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7041.1 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

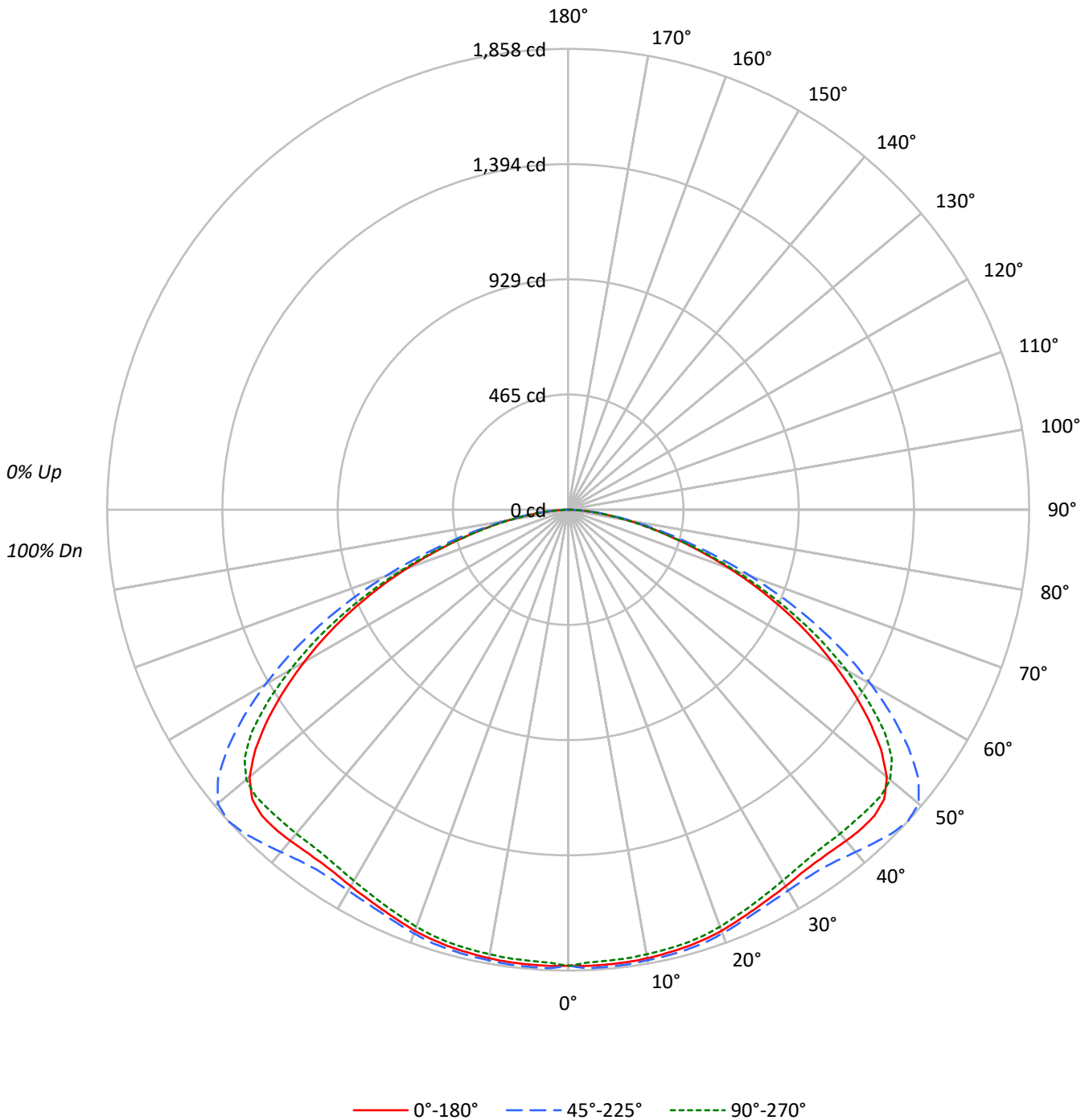
Input Watts (W): 74.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P127956

CATALOG NUMBER: LSM70W8035D010TEP

### Luminous Intensity Polar Plot





TEST NUMBER: P127956

CATALOG NUMBER: LSM70W8035D010TEP

**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°	19907	19907	19907
5°	20006	20105	19840
10°	20193	20282	20013
15°	20473	20598	20301
20°	20821	20951	20622
25°	21235	21393	20992
30°	21917	22172	21599
35°	22955	23401	22552
40°	24633	25469	24100
45°	26734	28264	26156
50°	28241	31056	28533
55°	27936	31611	29359
60°	26639	30546	28053
65°	24703	28382	25800
70°	21909	24715	22587
75°	18376	20166	18589
80°	14998	16014	14680
85°	10760	11393	10511



TEST NUMBER: P127956

CATALOG NUMBER: LSM70W8035D010TEP

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	2.5
10°-20°	515.9	7.3
20°-30°	821.5	11.7
30°-40°	1098.2	15.6
40°-50°	1375.5	19.5
50°-60°	1412.2	20.1
60°-70°	1032.1	14.7
70°-80°	501.0	7.1
80°-90°	109.6	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°	1512.5	21.5
0°-40°	2610.7	37.1
0°-60°	5398.4	76.7
0°-90°	7041.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7041.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1840	1834	1850	1827	1825	176
15°	1826	1822	1837	1816	1811	517
25°	1777	1775	1790	1767	1757	822
35°	1736	1746	1770	1732	1706	1093
45°	1746	1792	1846	1772	1708	1341
55°	1480	1560	1674	1628	1555	1315
65°	964	1026	1108	1066	1007	952
75°	439	463	482	463	444	475
85°	87	90	92	88	85	106
90°	0	0	0	0	0	



TEST NUMBER: P127956

CATALOG NUMBER: LSM70W8035D010TEP

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1838.4	1838.4	1838.4	1838.4	1838.4
2.5°	1841.5	1835.4	1850.7	1828.2	1827.2
5°	1840.5	1834.4	1849.6	1827.2	1825.2
7.5°	1839.5	1834.4	1848.6	1826.2	1824.2
10°	1836.4	1830.3	1844.5	1823.1	1820.1
12.5°	1831.3	1826.2	1841.5	1819.1	1816.0
15°	1826.2	1822.1	1837.4	1816.0	1810.9
17.5°	1818.1	1814.0	1830.3	1807.9	1802.8
20°	1806.8	1802.8	1818.1	1796.7	1789.5
22.5°	1791.6	1787.5	1803.8	1781.4	1772.2
25°	1777.3	1775.3	1790.5	1767.1	1756.9
27.5°	1764.0	1764.0	1780.3	1754.9	1741.6
30°	1752.8	1754.9	1773.2	1744.7	1727.4
32.5°	1741.6	1747.7	1768.1	1735.5	1715.1
35°	1736.5	1745.7	1770.2	1732.4	1706.0
37.5°	1737.5	1753.9	1782.4	1736.5	1702.9
40°	1742.6	1767.1	1801.7	1746.7	1704.9
42.5°	1746.7	1780.3	1823.1	1758.9	1706.0
45°	1745.7	1791.6	1845.6	1772.2	1708.0
47.5°	1727.4	1786.5	1857.8	1782.4	1709.0
50°	1676.4	1747.7	1843.5	1774.2	1693.7
52.5°	1588.8	1668.2	1779.3	1723.3	1643.8
55°	1479.7	1560.2	1674.4	1628.5	1555.1
57.5°	1357.4	1439.0	1549.0	1504.2	1431.8
60°	1230.0	1306.5	1410.4	1365.6	1295.3
62.5°	1098.6	1168.9	1263.7	1220.9	1154.6
65°	964.1	1026.2	1107.7	1066.0	1006.9
67.5°	827.5	879.5	944.7	908.0	858.1
70°	692.0	732.7	780.6	751.1	713.4
72.5°	559.5	597.2	625.7	600.2	573.7
75°	439.2	462.7	482.0	462.7	444.3
77.5°	336.3	349.5	359.7	344.5	330.2
80°	240.5	252.7	256.8	245.6	235.4
82.5°	156.9	165.1	168.1	160.0	153.9
85°	86.6	89.7	91.7	87.6	84.6
87.5°	27.5	28.5	30.6	27.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)