

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: P127964

Luminaire Tested: **LSM80W8035D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127964  
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: LSM80W8035D010TEP  
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: 8056.8 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

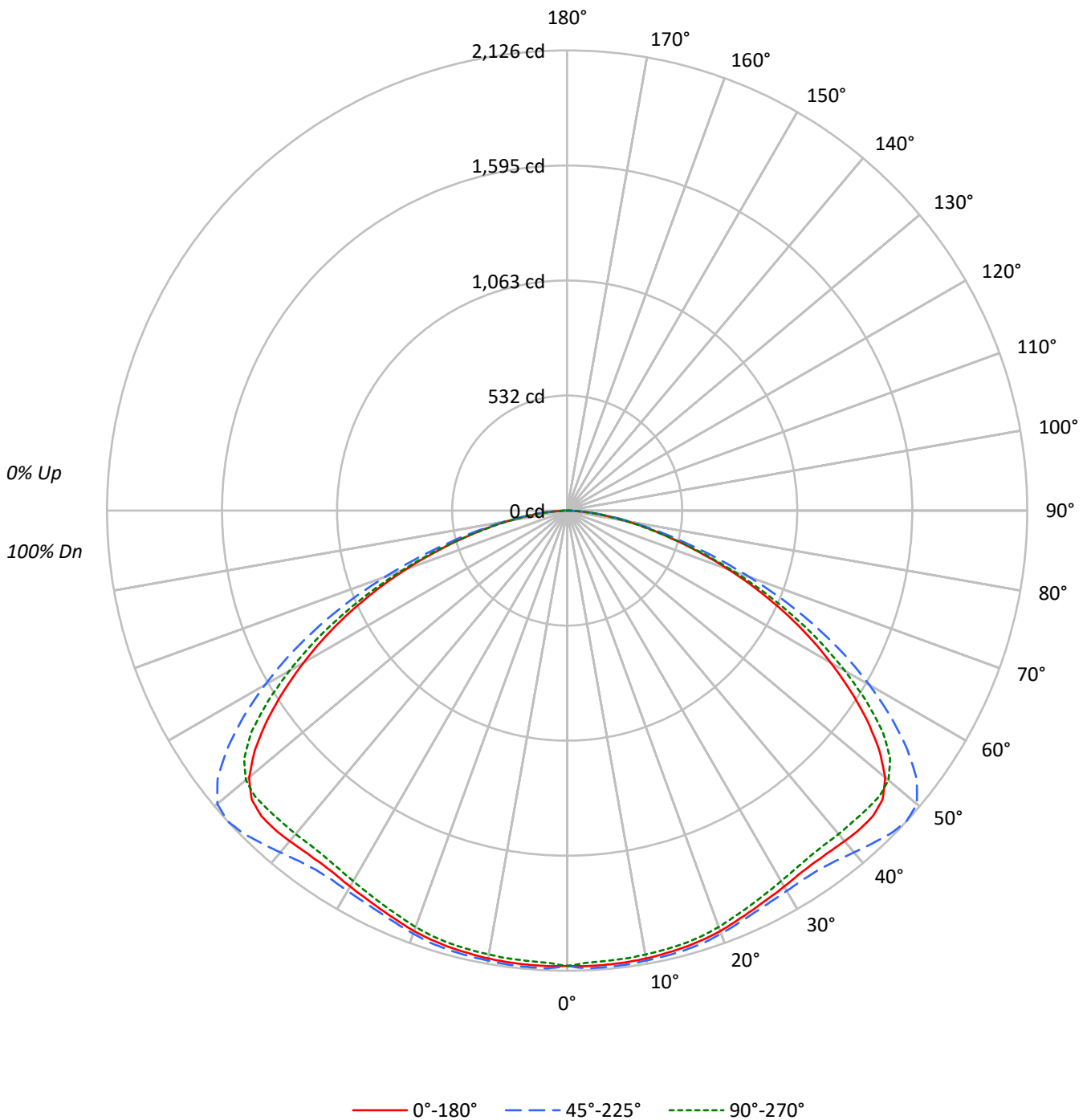
Input Watts (W): 88.06  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	22779	22779	22779
5°	22892	23006	22702
10°	23105	23208	22900
15°	23426	23570	23230
20°	23825	23973	23597
25°	24299	24479	24019
30°	25079	25370	24714
35°	26267	26776	25804
40°	28187	29142	27578
45°	30590	32340	29930
50°	32315	35538	32648
55°	31966	36171	33596
60°	30483	34953	32098
65°	28265	32477	29520
70°	25069	28280	25845
75°	21028	23078	21271
80°	17161	18328	16800
85°	12313	13033	12027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.4	2.5
10°-20°	590.3	7.3
20°-30°	940.0	11.7
30°-40°	1256.6	15.6
40°-50°	1573.9	19.5
50°-60°	1616.0	20.1
60°-70°	1180.9	14.7
70°-80°	573.2	7.1
80°-90°	125.5	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°	1730.7	21.5
0°-40°	2987.3	37.1
0°-60°	6177.1	76.7
0°-90°	8056.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8056.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2106	2099	2116	2091	2088	201
15°	2090	2085	2102	2078	2072	591
25°	2034	2031	2049	2022	2010	941
35°	1987	1998	2026	1982	1952	1251
45°	1998	2050	2112	2028	1954	1534
55°	1693	1785	1916	1863	1780	1504
65°	1103	1174	1268	1220	1152	1090
75°	503	529	552	529	508	543
85°	99	103	105	100	97	122
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2103.6	2103.6	2103.6	2103.6	2103.6
2.5°	2107.1	2100.1	2117.6	2092.0	2090.8
5°	2106.0	2099.0	2116.5	2090.8	2088.5
7.5°	2104.8	2099.0	2115.3	2089.6	2087.3
10°	2101.3	2094.3	2110.6	2086.1	2082.6
12.5°	2095.5	2089.6	2107.1	2081.5	2078.0
15°	2089.6	2085.0	2102.5	2078.0	2072.1
17.5°	2080.3	2075.6	2094.3	2068.6	2062.8
20°	2067.5	2062.8	2080.3	2055.8	2047.7
22.5°	2050.0	2045.3	2064.0	2038.3	2027.8
25°	2033.7	2031.3	2048.8	2022.0	2010.3
27.5°	2018.5	2018.5	2037.2	2008.0	1992.8
30°	2005.7	2008.0	2029.0	1996.3	1976.5
32.5°	1992.8	1999.8	2023.2	1985.8	1962.5
35°	1987.0	1997.5	2025.5	1982.4	1952.0
37.5°	1988.2	2006.8	2039.5	1987.0	1948.5
40°	1994.0	2022.0	2061.6	1998.7	1950.9
42.5°	1998.7	2037.2	2086.1	2012.7	1952.0
45°	1997.5	2050.0	2111.8	2027.8	1954.4
47.5°	1976.5	2044.2	2125.8	2039.5	1955.5
50°	1918.2	1999.8	2109.5	2030.2	1938.0
52.5°	1817.9	1908.9	2036.0	1971.9	1880.9
55°	1693.2	1785.3	1915.9	1863.4	1779.5
57.5°	1553.2	1646.5	1772.5	1721.1	1638.4
60°	1407.5	1494.9	1613.9	1562.6	1482.1
62.5°	1257.0	1337.5	1446.0	1397.0	1321.2
65°	1103.1	1174.3	1267.5	1219.7	1152.1
67.5°	946.9	1006.3	1081.0	1039.0	981.8
70°	791.8	838.4	893.2	859.4	816.3
72.5°	640.2	683.3	716.0	686.8	656.5
75°	502.6	529.4	551.6	529.4	508.4
77.5°	384.8	400.0	411.6	394.1	377.8
80°	275.2	289.2	293.9	281.0	269.4
82.5°	179.6	188.9	192.4	183.1	176.1
85°	99.1	102.6	104.9	100.3	96.8
87.5°	31.5	32.7	35.0	31.5	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)