

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: P127965

Luminaire Tested: **LSM80W8040D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127965
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: LSM80W8040D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 4000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8085.1 lumens
Efficiency: N/A
Efficacy: 91.8 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

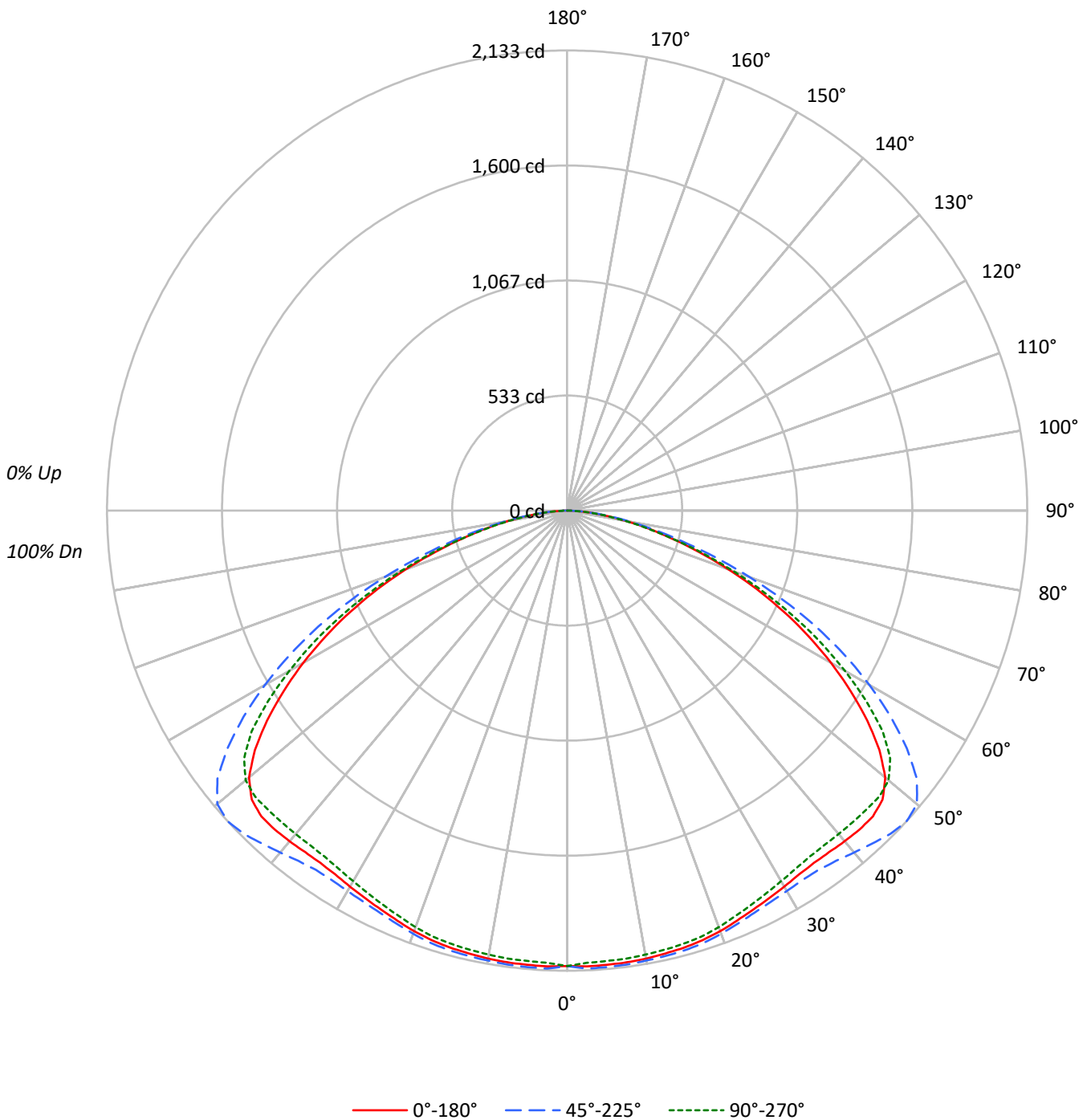
Input Watts (W): 88.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22859	22859	22859
5°	22973	23087	22781
10°	23187	23289	22981
15°	23509	23653	23311
20°	23908	24057	23680
25°	24384	24565	24104
30°	25167	25459	24801
35°	26359	26870	25895
40°	28286	29246	27674
45°	30697	32454	30034
50°	32429	35662	32765
55°	32078	36297	33713
60°	30589	35074	32211
65°	28364	32592	29623
70°	25158	28381	25933
75°	21103	23158	21346
80°	17224	18390	16856
85°	12362	13083	12064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	2.5
10°-20°	592.3	7.3
20°-30°	943.3	11.7
30°-40°	1261.0	15.6
40°-50°	1579.4	19.5
50°-60°	1621.6	20.1
60°-70°	1185.1	14.7
70°-80°	575.3	7.1
80°-90°	125.9	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°	1736.8	21.5
0°-40°	2997.8	37.1
0°-60°	6198.9	76.7
0°-90°	8085.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8085.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2111	2111	2111	2111	2111	
5°	2113	2106	2124	2098	2096	202
15°	2097	2092	2110	2085	2079	593
25°	2041	2038	2056	2029	2017	944
35°	1994	2004	2033	1989	1959	1256
45°	2004	2057	2119	2035	1961	1540
55°	1699	1792	1923	1870	1786	1510
65°	1107	1178	1272	1224	1156	1093
75°	504	531	554	531	510	545
85°	100	103	105	101	97	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2111.0	2111.0	2111.0	2111.0	2111.0
2.5°	2114.5	2107.5	2125.1	2099.3	2098.1
5°	2113.4	2106.3	2123.9	2098.1	2095.8
7.5°	2112.2	2106.3	2122.7	2097.0	2094.6
10°	2108.7	2101.7	2118.0	2093.5	2090.0
12.5°	2102.8	2097.0	2114.5	2088.8	2085.3
15°	2097.0	2092.3	2109.9	2085.3	2079.4
17.5°	2087.6	2082.9	2101.7	2075.9	2070.1
20°	2074.7	2070.1	2087.6	2063.0	2054.9
22.5°	2057.2	2052.5	2071.2	2045.5	2035.0
25°	2040.8	2038.5	2056.0	2029.1	2017.4
27.5°	2025.6	2025.6	2044.3	2015.1	1999.9
30°	2012.7	2015.1	2036.1	2003.4	1983.5
32.5°	1999.9	2006.9	2030.3	1992.8	1969.4
35°	1994.0	2004.5	2032.6	1989.3	1958.9
37.5°	1995.2	2013.9	2046.7	1994.0	1955.4
40°	2001.0	2029.1	2068.9	2005.7	1957.7
42.5°	2005.7	2044.3	2093.5	2019.7	1958.9
45°	2004.5	2057.2	2119.2	2035.0	1961.2
47.5°	1983.5	2051.3	2133.3	2046.7	1962.4
50°	1925.0	2006.9	2116.9	2037.3	1944.9
52.5°	1824.3	1915.6	2043.1	1978.8	1887.5
55°	1699.1	1791.6	1922.6	1870.0	1785.7
57.5°	1558.7	1652.3	1778.7	1727.2	1644.1
60°	1412.4	1500.2	1619.5	1568.1	1487.3
62.5°	1261.5	1342.2	1451.0	1401.9	1325.8
65°	1107.0	1178.4	1272.0	1224.0	1156.1
67.5°	950.2	1009.9	1084.8	1042.6	985.3
70°	794.6	841.4	896.4	862.4	819.1
72.5°	642.4	685.7	718.5	689.2	658.8
75°	504.4	531.3	553.5	531.3	510.2
77.5°	386.2	401.4	413.1	395.5	379.1
80°	276.2	290.2	294.9	282.0	270.3
82.5°	180.2	189.6	193.1	183.7	176.7
85°	99.5	103.0	105.3	100.6	97.1
87.5°	31.6	32.8	35.1	31.6	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)