

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: P127970

Luminaire Tested: **LSM90W8027D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127970
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: LSM90W8027D010TEP
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: 7785.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

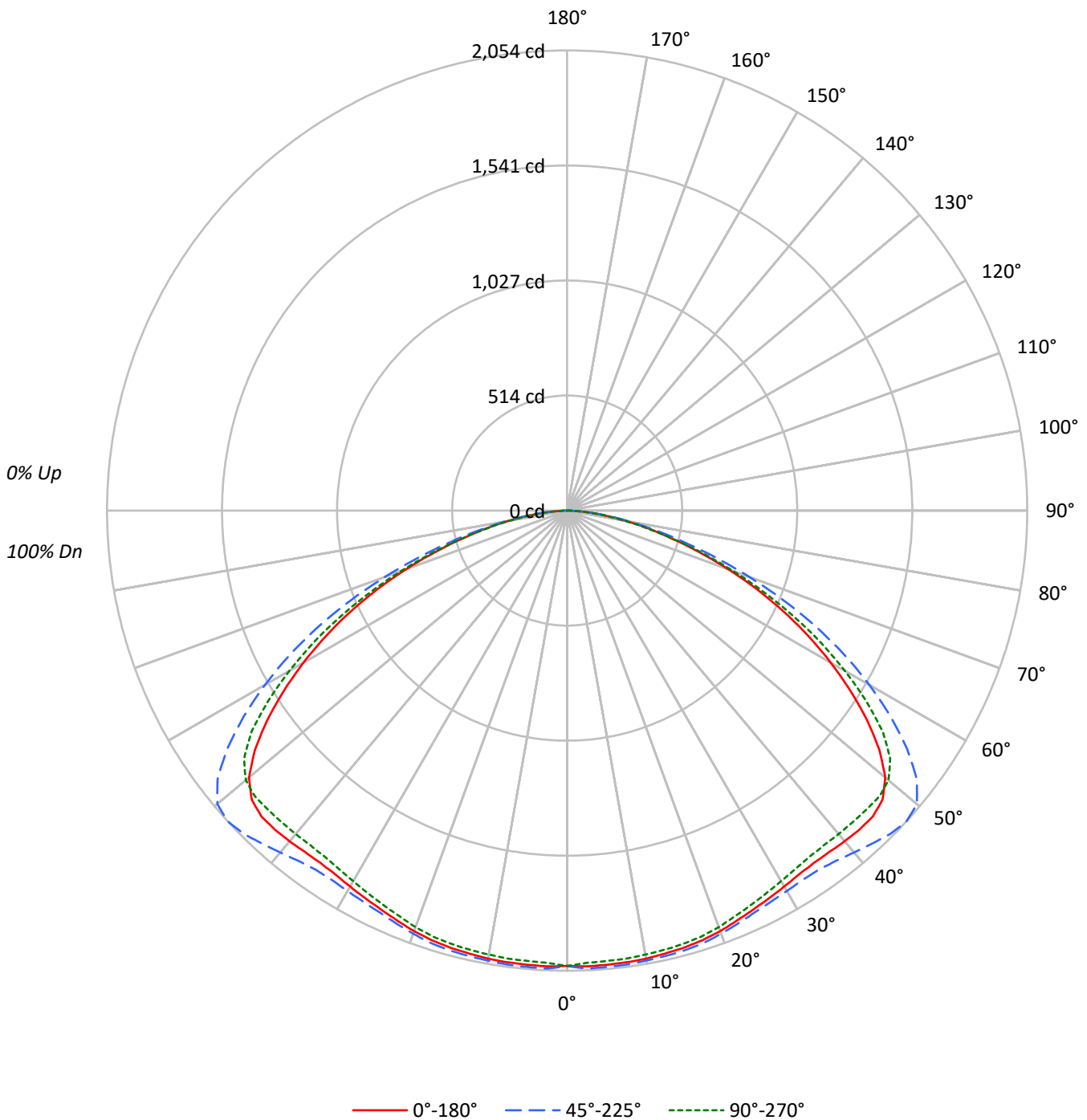
Input Watts (W): 97.58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22011	22011	22011
5°	22119	22230	21936
10°	22326	22425	22128
15°	22637	22774	22447
20°	23021	23164	22801
25°	23479	23654	23209
30°	24233	24515	23881
35°	25381	25873	24934
40°	27237	28160	26647
45°	29558	31250	28921
50°	31225	34338	31548
55°	30888	34951	32461
60°	29454	33772	31015
65°	27311	31383	28523
70°	24224	27327	24971
75°	20317	22300	20555
80°	16581	17704	16232
85°	11903	12598	11617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	2.5
10°-20°	570.4	7.3
20°-30°	908.3	11.7
30°-40°	1214.2	15.6
40°-50°	1520.8	19.5
50°-60°	1561.5	20.1
60°-70°	1141.1	14.7
70°-80°	553.9	7.1
80°-90°	121.2	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°	1672.3	21.5
0°-40°	2886.5	37.1
0°-60°	5968.8	76.7
0°-90°	7785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	2035	2028	2045	2020	2018	194
15°	2019	2015	2032	2008	2002	571
25°	1965	1963	1980	1954	1942	909
35°	1920	1930	1957	1916	1886	1209
45°	1930	1981	2041	1959	1888	1483
55°	1636	1725	1851	1801	1719	1454
65°	1066	1135	1225	1179	1113	1053
75°	486	512	533	512	491	525
85°	96	99	101	97	94	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2032.7	2032.7	2032.7	2032.7	2032.7
2.5°	2036.1	2029.3	2046.2	2021.4	2020.3
5°	2034.9	2028.2	2045.1	2020.3	2018.0
7.5°	2033.8	2028.2	2043.9	2019.2	2016.9
10°	2030.4	2023.7	2039.4	2015.8	2012.4
12.5°	2024.8	2019.2	2036.1	2011.3	2007.9
15°	2019.2	2014.6	2031.5	2007.9	2002.3
17.5°	2010.1	2005.6	2023.7	1998.9	1993.2
20°	1997.7	1993.2	2010.1	1986.5	1978.6
22.5°	1980.8	1976.3	1994.4	1969.6	1959.4
25°	1965.1	1962.8	1979.7	1953.8	1942.5
27.5°	1950.4	1950.4	1968.5	1940.3	1925.6
30°	1938.0	1940.3	1960.6	1929.0	1909.9
32.5°	1925.6	1932.4	1954.9	1918.9	1896.3
35°	1920.0	1930.1	1957.2	1915.5	1886.2
37.5°	1921.1	1939.2	1970.7	1920.0	1882.8
40°	1926.8	1953.8	1992.1	1931.3	1885.1
42.5°	1931.3	1968.5	2015.8	1944.8	1886.2
45°	1930.1	1980.8	2040.6	1959.4	1888.5
47.5°	1909.9	1975.2	2054.1	1970.7	1889.6
50°	1853.5	1932.4	2038.3	1961.7	1872.7
52.5°	1756.6	1844.5	1967.3	1905.4	1817.5
55°	1636.1	1725.1	1851.3	1800.6	1719.4
57.5°	1500.8	1591.0	1712.7	1663.1	1583.1
60°	1360.0	1444.5	1559.4	1509.9	1432.1
62.5°	1214.6	1292.4	1397.2	1349.9	1276.6
65°	1065.9	1134.6	1224.8	1178.6	1113.2
67.5°	914.9	972.4	1044.5	1003.9	948.7
70°	765.1	810.1	863.1	830.4	788.7
72.5°	618.6	660.3	691.8	663.7	634.4
75°	485.6	511.5	533.0	511.5	491.3
77.5°	371.8	386.5	397.7	380.8	365.1
80°	265.9	279.4	283.9	271.5	260.3
82.5°	173.5	182.5	185.9	176.9	170.1
85°	95.8	99.2	101.4	96.9	93.5
87.5°	30.4	31.5	33.8	30.4	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)