

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: P127975

Luminaire Tested: **LSM90W9030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127975
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: LSM90W9030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6738.4 lumens
Efficiency: N/A
Efficacy: 69.1 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

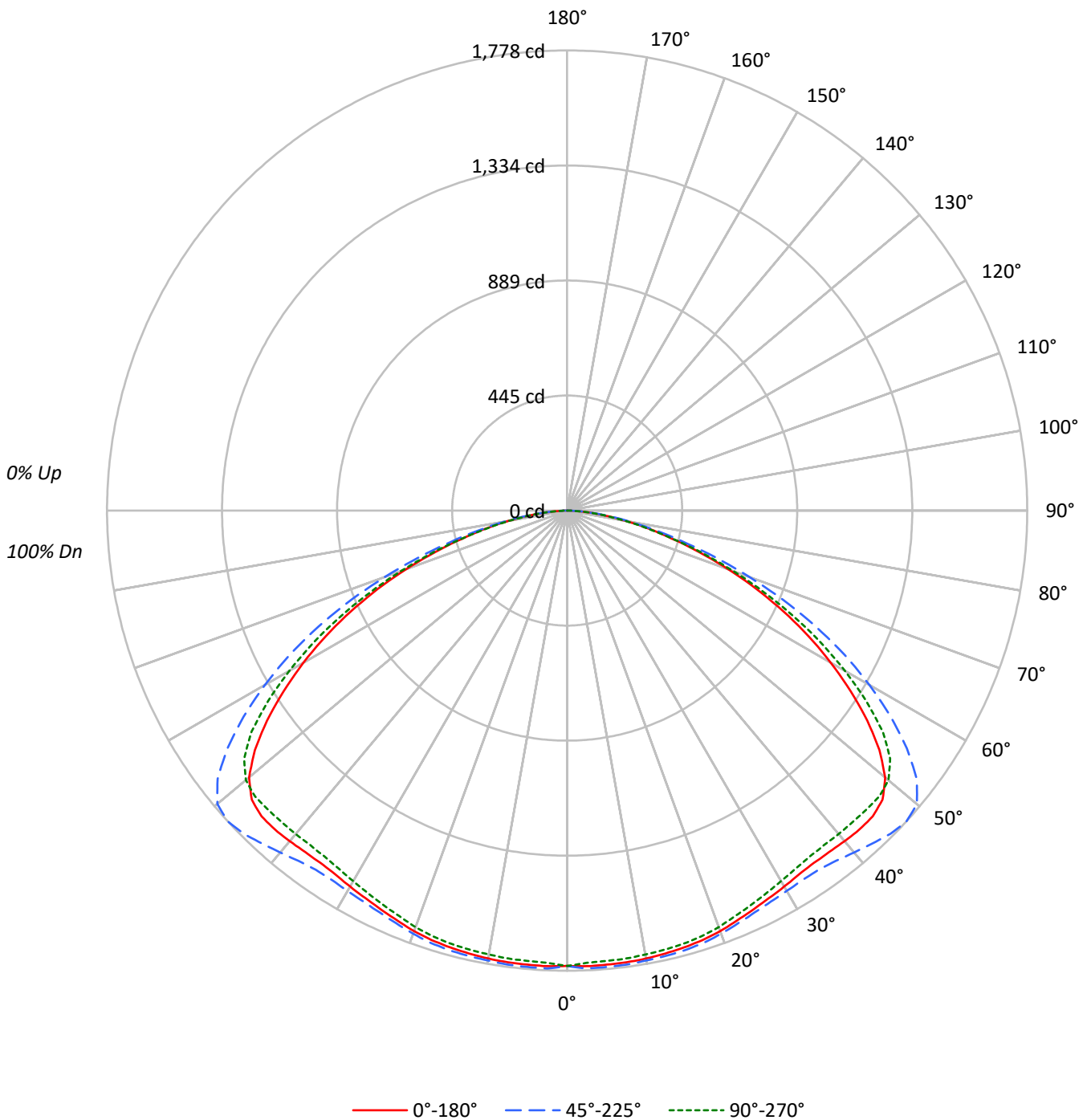
Input Watts (W): 97.58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19052	19052	19052
5°	19145	19241	18987
10°	19324	19410	19152
15°	19593	19713	19429
20°	19927	20050	19735
25°	20323	20474	20090
30°	20975	21219	20670
35°	21969	22395	21582
40°	23574	24374	23064
45°	25584	27048	25032
50°	27027	29722	27306
55°	26735	30252	28098
60°	25495	29233	26846
65°	23640	27163	24690
70°	20966	23654	21615
75°	17585	19300	17790
80°	14355	15328	14050
85°	10300	10909	10051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	2.5
10°-20°	493.7	7.3
20°-30°	786.2	11.7
30°-40°	1051.0	15.6
40°-50°	1316.4	19.5
50°-60°	1351.5	20.1
60°-70°	987.7	14.7
70°-80°	479.4	7.1
80°-90°	104.9	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°	1447.5	21.5
0°-40°	2498.5	37.1
0°-60°	5166.3	76.7
0°-90°	6738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6738.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1761	1756	1770	1749	1747	168
15°	1748	1744	1758	1738	1733	495
25°	1701	1699	1714	1691	1681	787
35°	1662	1671	1694	1658	1633	1046
45°	1671	1714	1766	1696	1635	1283
55°	1416	1493	1602	1558	1488	1258
65°	923	982	1060	1020	964	911
75°	420	443	461	443	425	454
85°	83	86	88	84	81	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1759.4	1759.4	1759.4	1759.4	1759.4
2.5°	1762.3	1756.5	1771.1	1749.6	1748.7
5°	1761.3	1755.5	1770.1	1748.7	1746.7
7.5°	1760.4	1755.5	1769.1	1747.7	1745.7
10°	1757.4	1751.6	1765.2	1744.8	1741.8
12.5°	1752.6	1747.7	1762.3	1740.9	1737.9
15°	1747.7	1743.8	1758.4	1737.9	1733.1
17.5°	1739.9	1736.0	1751.6	1730.1	1725.3
20°	1729.2	1725.3	1739.9	1719.4	1712.6
22.5°	1714.5	1710.6	1726.2	1704.8	1696.0
25°	1700.9	1698.9	1713.6	1691.1	1681.4
27.5°	1688.2	1688.2	1703.8	1679.4	1666.7
30°	1677.5	1679.4	1697.0	1669.7	1653.1
32.5°	1666.7	1672.6	1692.1	1660.9	1641.4
35°	1661.9	1670.6	1694.1	1658.0	1632.6
37.5°	1662.8	1678.4	1705.8	1661.9	1629.7
40°	1667.7	1691.1	1724.3	1671.6	1631.6
42.5°	1671.6	1703.8	1744.8	1683.3	1632.6
45°	1670.6	1714.5	1766.2	1696.0	1634.6
47.5°	1653.1	1709.7	1777.9	1705.8	1635.5
50°	1604.3	1672.6	1764.3	1698.0	1620.9
52.5°	1520.5	1596.5	1702.8	1649.2	1573.1
55°	1416.1	1493.1	1602.4	1558.5	1488.3
57.5°	1299.1	1377.1	1482.4	1439.5	1370.3
60°	1177.2	1250.3	1349.8	1306.9	1239.6
62.5°	1051.3	1118.6	1209.3	1168.4	1105.0
65°	922.6	982.1	1060.1	1020.1	963.6
67.5°	791.9	841.7	904.1	869.0	821.2
70°	662.2	701.2	747.1	718.8	682.7
72.5°	535.4	571.5	598.8	574.4	549.1
75°	420.3	442.8	461.3	442.8	425.2
77.5°	321.8	334.5	344.3	329.6	316.0
80°	230.2	241.9	245.8	235.0	225.3
82.5°	150.2	158.0	160.9	153.1	147.3
85°	82.9	85.8	87.8	83.9	80.9
87.5°	26.3	27.3	29.3	26.3	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)