

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: P127969

Luminaire Tested: **LSM80W9040D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127969
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: LSM80W9040D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 4000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6534.4 lumens
Efficiency: N/A
Efficacy: 74.2 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

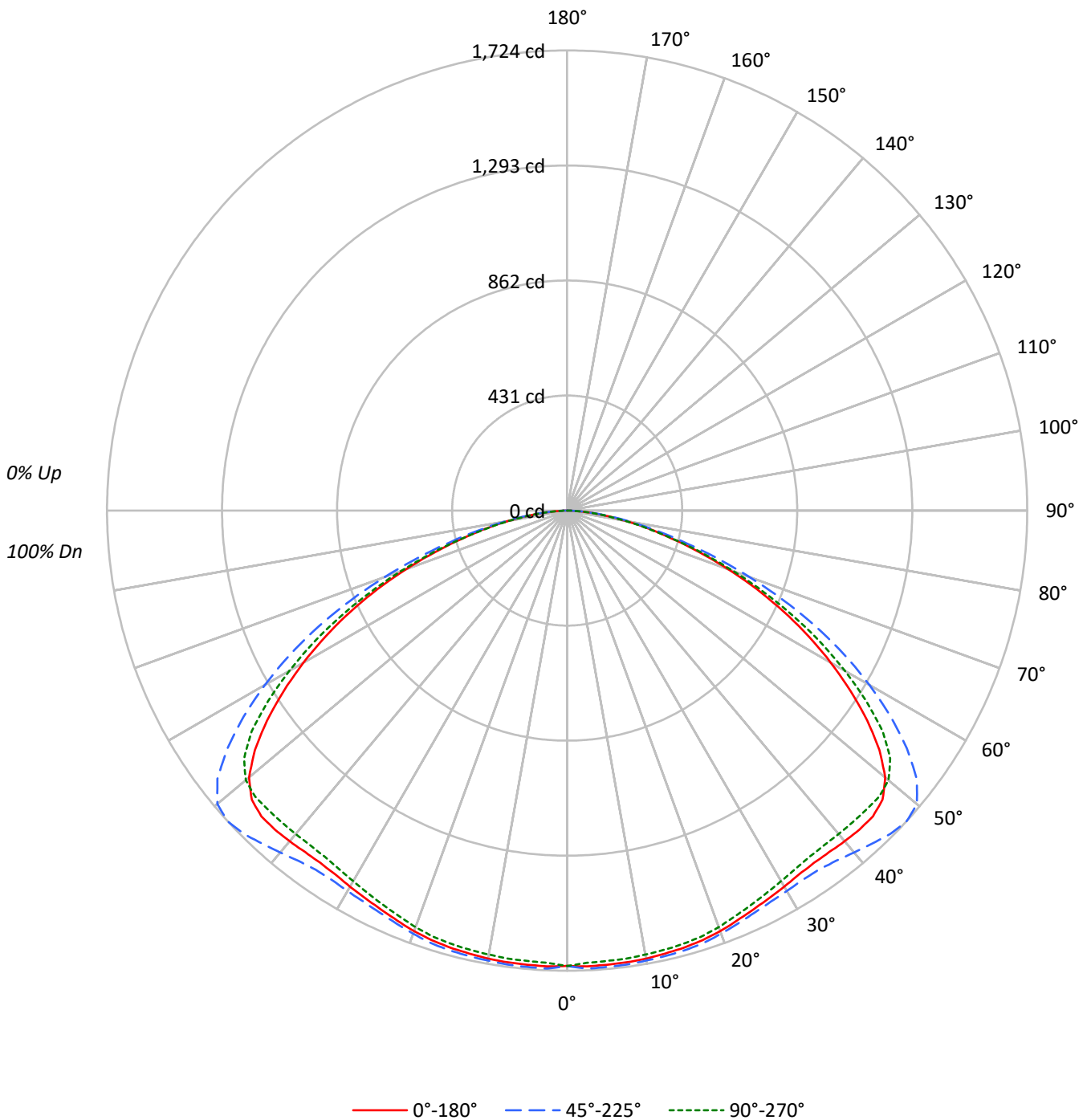
Input Watts (W): 88.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18475	18475	18475
5°	18566	18658	18412
10°	18739	18822	18573
15°	19000	19116	18841
20°	19323	19443	19137
25°	19707	19854	19481
30°	20340	20576	20045
35°	21304	21717	20929
40°	22860	23637	22366
45°	24810	26230	24274
50°	26210	28823	26479
55°	25925	29336	27246
60°	24722	28347	26034
65°	22925	26340	23942
70°	20333	22935	20960
75°	17053	18714	17250
80°	13919	14860	13626
85°	9989	10573	9753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	2.5
10°-20°	478.7	7.3
20°-30°	762.4	11.7
30°-40°	1019.2	15.6
40°-50°	1276.5	19.5
50°-60°	1310.6	20.1
60°-70°	957.8	14.7
70°-80°	464.9	7.1
80°-90°	101.7	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°	1403.7	21.5
0°-40°	2422.8	37.1
0°-60°	5010.0	76.7
0°-90°	6534.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6534.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1708	1702	1716	1696	1694	163
15°	1695	1691	1705	1685	1681	480
25°	1649	1648	1662	1640	1630	763
35°	1612	1620	1643	1608	1583	1015
45°	1620	1663	1713	1645	1585	1245
55°	1373	1448	1554	1511	1443	1220
65°	895	952	1028	989	934	884
75°	408	429	447	429	412	440
85°	80	83	85	81	78	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.1	1706.1	1706.1	1706.1	1706.1
2.5°	1709.0	1703.3	1717.5	1696.7	1695.7
5°	1708.0	1702.4	1716.5	1695.7	1693.8
7.5°	1707.1	1702.4	1715.6	1694.8	1692.9
10°	1704.2	1698.6	1711.8	1692.0	1689.1
12.5°	1699.5	1694.8	1709.0	1688.2	1685.3
15°	1694.8	1691.0	1705.2	1685.3	1680.6
17.5°	1687.2	1683.4	1698.6	1677.8	1673.0
20°	1676.8	1673.0	1687.2	1667.4	1660.7
22.5°	1662.6	1658.9	1674.0	1653.2	1644.7
25°	1649.4	1647.5	1661.7	1639.9	1630.5
27.5°	1637.1	1637.1	1652.2	1628.6	1616.3
30°	1626.7	1628.6	1645.6	1619.1	1603.1
32.5°	1616.3	1622.0	1640.9	1610.6	1591.7
35°	1611.6	1620.1	1642.8	1607.8	1583.2
37.5°	1612.5	1627.6	1654.1	1611.6	1580.4
40°	1617.2	1639.9	1672.1	1621.0	1582.2
42.5°	1621.0	1652.2	1692.0	1632.4	1583.2
45°	1620.1	1662.6	1712.8	1644.7	1585.1
47.5°	1603.1	1657.9	1724.1	1654.1	1586.0
50°	1555.8	1622.0	1710.9	1646.6	1571.8
52.5°	1474.4	1548.2	1651.3	1599.3	1525.5
55°	1373.2	1448.0	1553.9	1511.3	1443.2
57.5°	1259.7	1335.4	1437.5	1395.9	1328.8
60°	1141.5	1212.5	1308.9	1267.3	1202.1
62.5°	1019.5	1084.8	1172.7	1133.0	1071.5
65°	894.7	952.4	1028.0	989.3	934.4
67.5°	768.0	816.2	876.7	842.7	796.3
70°	642.2	680.0	724.4	697.0	662.0
72.5°	519.2	554.2	580.7	557.0	532.5
75°	407.6	429.4	447.3	429.4	412.3
77.5°	312.1	324.4	333.9	319.7	306.4
80°	223.2	234.5	238.3	227.9	218.5
82.5°	145.6	153.2	156.0	148.5	142.8
85°	80.4	83.2	85.1	81.3	78.5
87.5°	25.5	26.5	28.4	25.5	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)