

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: P127967

Luminaire Tested: **LSM80W9030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127967
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: LSM80W9030D010TEP
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: 6172.0 lumens
Efficiency: N/A
Efficacy: 70.1 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

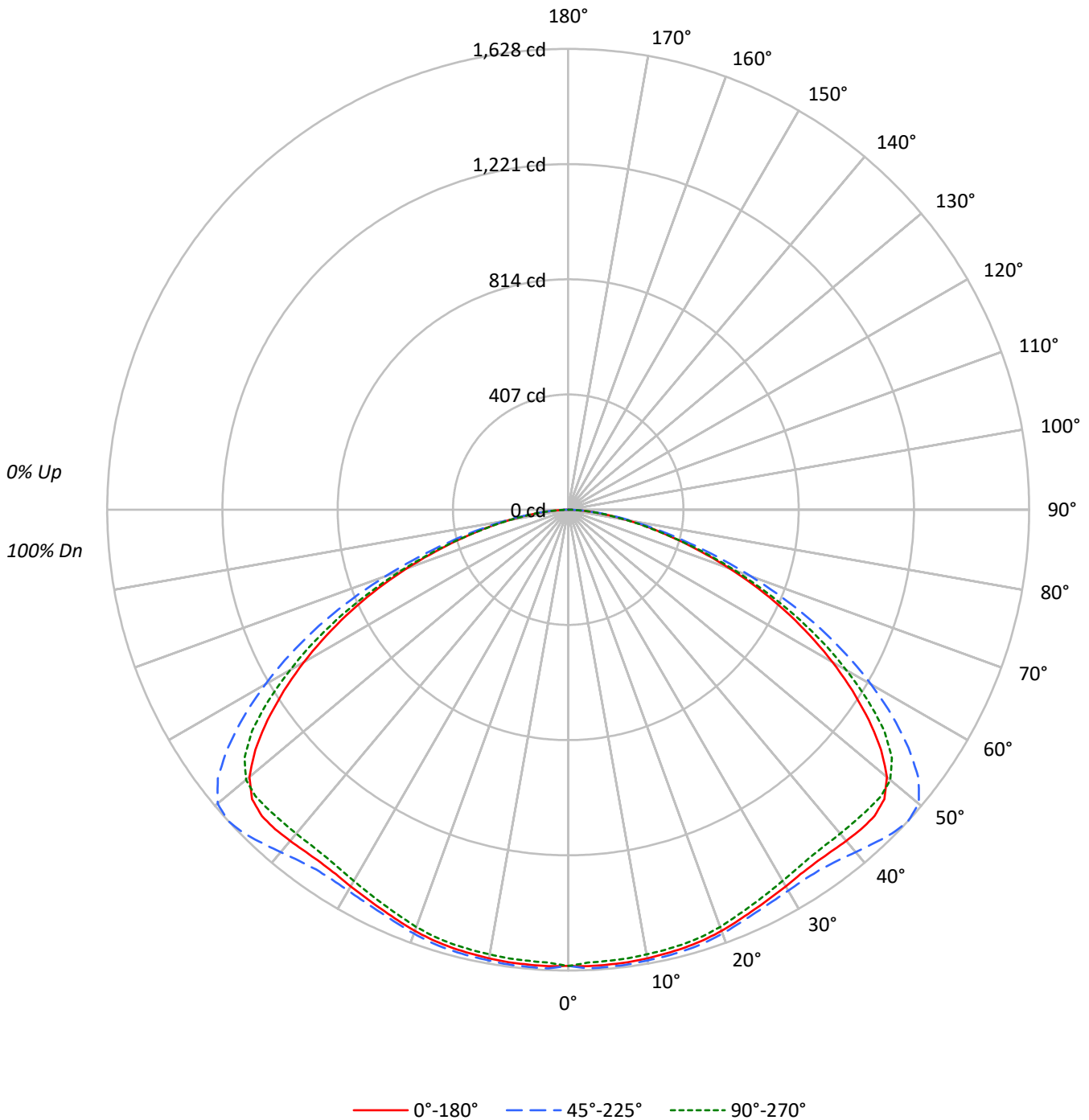
Input Watts (W): 88.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17450	17450	17450
5°	17537	17624	17391
10°	17700	17779	17543
15°	17946	18056	17796
20°	18251	18364	18076
25°	18614	18753	18400
30°	19212	19435	18932
35°	20123	20512	19768
40°	21592	22325	21126
45°	23434	24775	22928
50°	24756	27224	25012
55°	24488	27709	25736
60°	23351	26775	24590
65°	21654	24880	22615
70°	19202	21666	19798
75°	16108	17677	16296
80°	13145	14037	12871
85°	9430	9989	9207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	2.5
10°-20°	452.2	7.3
20°-30°	720.1	11.7
30°-40°	962.6	15.6
40°-50°	1205.7	19.5
50°-60°	1237.9	20.1
60°-70°	904.7	14.7
70°-80°	439.1	7.1
80°-90°	96.1	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°	1325.8	21.5
0°-40°	2288.4	37.1
0°-60°	4732.1	76.7
0°-90°	6172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1613	1608	1621	1602	1600	154
15°	1601	1597	1611	1592	1587	453
25°	1558	1556	1570	1549	1540	721
35°	1522	1530	1552	1519	1495	959
45°	1530	1570	1618	1553	1497	1175
55°	1297	1368	1468	1428	1363	1152
65°	845	900	971	934	883	835
75°	385	406	422	406	390	416
85°	76	79	80	77	74	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.5	1611.5	1611.5	1611.5	1611.5
2.5°	1614.2	1608.8	1622.2	1602.6	1601.7
5°	1613.3	1607.9	1621.3	1601.7	1599.9
7.5°	1612.4	1607.9	1620.4	1600.8	1599.0
10°	1609.7	1604.4	1616.9	1598.1	1595.4
12.5°	1605.3	1600.8	1614.2	1594.5	1591.9
15°	1600.8	1597.2	1610.6	1591.9	1587.4
17.5°	1593.6	1590.1	1604.4	1584.7	1580.2
20°	1583.8	1580.2	1593.6	1574.9	1568.6
22.5°	1570.4	1566.8	1581.1	1561.5	1553.4
25°	1557.9	1556.1	1569.5	1549.0	1540.0
27.5°	1546.3	1546.3	1560.6	1538.3	1526.6
30°	1536.5	1538.3	1554.3	1529.3	1514.1
32.5°	1526.6	1532.0	1549.9	1521.3	1503.4
35°	1522.2	1530.2	1551.7	1518.6	1495.4
37.5°	1523.1	1537.4	1562.4	1522.2	1492.7
40°	1527.5	1549.0	1579.3	1531.1	1494.5
42.5°	1531.1	1560.6	1598.1	1541.8	1495.4
45°	1530.2	1570.4	1617.8	1553.4	1497.2
47.5°	1514.1	1565.9	1628.5	1562.4	1498.1
50°	1469.5	1532.0	1616.0	1555.2	1484.7
52.5°	1392.6	1462.3	1559.7	1510.6	1440.9
55°	1297.1	1367.6	1467.7	1427.5	1363.2
57.5°	1189.9	1261.3	1357.8	1318.5	1255.1
60°	1078.2	1145.2	1236.3	1197.0	1135.4
62.5°	963.0	1024.6	1107.7	1070.2	1012.1
65°	845.1	899.5	971.0	934.4	882.6
67.5°	725.4	770.9	828.1	795.9	752.2
70°	606.5	642.3	684.3	658.4	625.3
72.5°	490.4	523.5	548.5	526.2	502.9
75°	385.0	405.6	422.5	405.6	389.5
77.5°	294.8	306.4	315.3	301.9	289.4
80°	210.8	221.5	225.1	215.3	206.4
82.5°	137.6	144.7	147.4	140.2	134.9
85°	75.9	78.6	80.4	76.8	74.1
87.5°	24.1	25.0	26.8	24.1	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)