

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: P127966

Luminaire Tested: **LSM80W9027D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127966
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: LSM80W9027D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 2700K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5903.1 lumens
Efficiency: N/A
Efficacy: 67.0 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

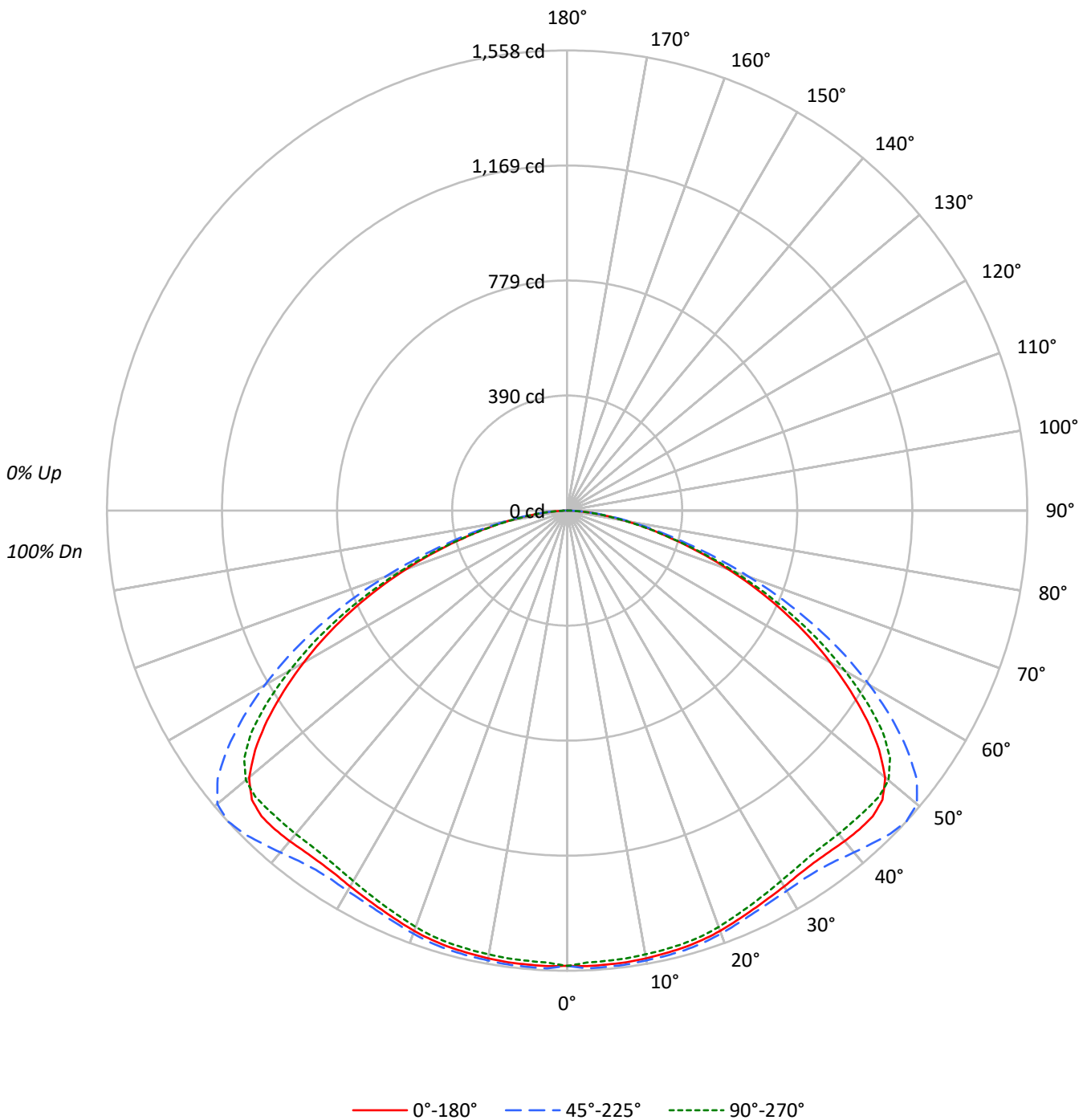
Input Watts (W): 88.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16690	16690	16690
5°	16772	16856	16633
10°	16929	17004	16778
15°	17165	17270	17020
20°	17456	17564	17289
25°	17803	17937	17600
30°	18374	18588	18108
35°	19246	19619	18906
40°	20652	21352	20206
45°	22414	23695	21928
50°	23678	26038	23922
55°	23422	26503	24615
60°	22333	25610	23518
65°	20708	23796	21628
70°	18367	20722	18936
75°	15405	16907	15585
80°	12572	13426	12310
85°	9020	9554	8809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	2.5
10°-20°	432.5	7.3
20°-30°	688.7	11.7
30°-40°	920.7	15.6
40°-50°	1153.2	19.5
50°-60°	1184.0	20.1
60°-70°	865.3	14.7
70°-80°	420.0	7.1
80°-90°	91.9	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°	1268.1	21.5
0°-40°	2188.8	37.1
0°-60°	4525.9	76.7
0°-90°	5903.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5903.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1543	1538	1551	1532	1530	147
15°	1531	1528	1540	1522	1518	433
25°	1490	1488	1501	1482	1473	689
35°	1456	1464	1484	1452	1430	917
45°	1464	1502	1547	1486	1432	1124
55°	1241	1308	1404	1365	1304	1102
65°	808	860	929	894	844	798
75°	368	388	404	388	372	398
85°	73	75	77	74	71	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.3	1541.3	1541.3	1541.3	1541.3
2.5°	1543.9	1538.7	1551.6	1532.8	1531.9
5°	1543.0	1537.9	1550.7	1531.9	1530.2
7.5°	1542.2	1537.9	1549.9	1531.1	1529.3
10°	1539.6	1534.5	1546.4	1528.5	1525.9
12.5°	1535.3	1531.1	1543.9	1525.1	1522.5
15°	1531.1	1527.6	1540.5	1522.5	1518.2
17.5°	1524.2	1520.8	1534.5	1515.7	1511.4
20°	1514.8	1511.4	1524.2	1506.3	1500.3
22.5°	1502.0	1498.6	1512.3	1493.5	1485.8
25°	1490.0	1488.3	1501.2	1481.5	1473.0
27.5°	1478.9	1478.9	1492.6	1471.2	1460.1
30°	1469.5	1471.2	1486.6	1462.7	1448.2
32.5°	1460.1	1465.3	1482.4	1455.0	1437.9
35°	1455.9	1463.6	1484.1	1452.5	1430.2
37.5°	1456.7	1470.4	1494.3	1455.9	1427.7
40°	1461.0	1481.5	1510.5	1464.4	1429.4
42.5°	1464.4	1492.6	1528.5	1474.7	1430.2
45°	1463.6	1502.0	1547.3	1485.8	1431.9
47.5°	1448.2	1497.7	1557.5	1494.3	1432.8
50°	1405.5	1465.3	1545.6	1487.5	1420.0
52.5°	1332.0	1398.6	1491.8	1444.8	1378.1
55°	1240.6	1308.1	1403.8	1365.3	1303.8
57.5°	1138.0	1206.4	1298.7	1261.1	1200.4
60°	1031.2	1095.3	1182.5	1144.9	1085.9
62.5°	921.0	980.0	1059.4	1023.6	968.0
65°	808.2	860.4	928.7	893.7	844.1
67.5°	693.8	737.3	792.0	761.3	719.4
70°	580.1	614.3	654.5	629.7	598.1
72.5°	469.1	500.7	524.6	503.2	481.0
75°	368.2	387.9	404.1	387.9	372.5
77.5°	281.9	293.1	301.6	288.8	276.8
80°	201.6	211.9	215.3	205.9	197.4
82.5°	131.6	138.4	141.0	134.1	129.0
85°	72.6	75.2	76.9	73.5	70.9
87.5°	23.1	23.9	25.6	23.1	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)