

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: P127949

Luminaire Tested: **LSM55W8040D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127949
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: LSM55W8040D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 4000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5827.9 lumens
Efficiency: N/A
Efficacy: 103.7 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

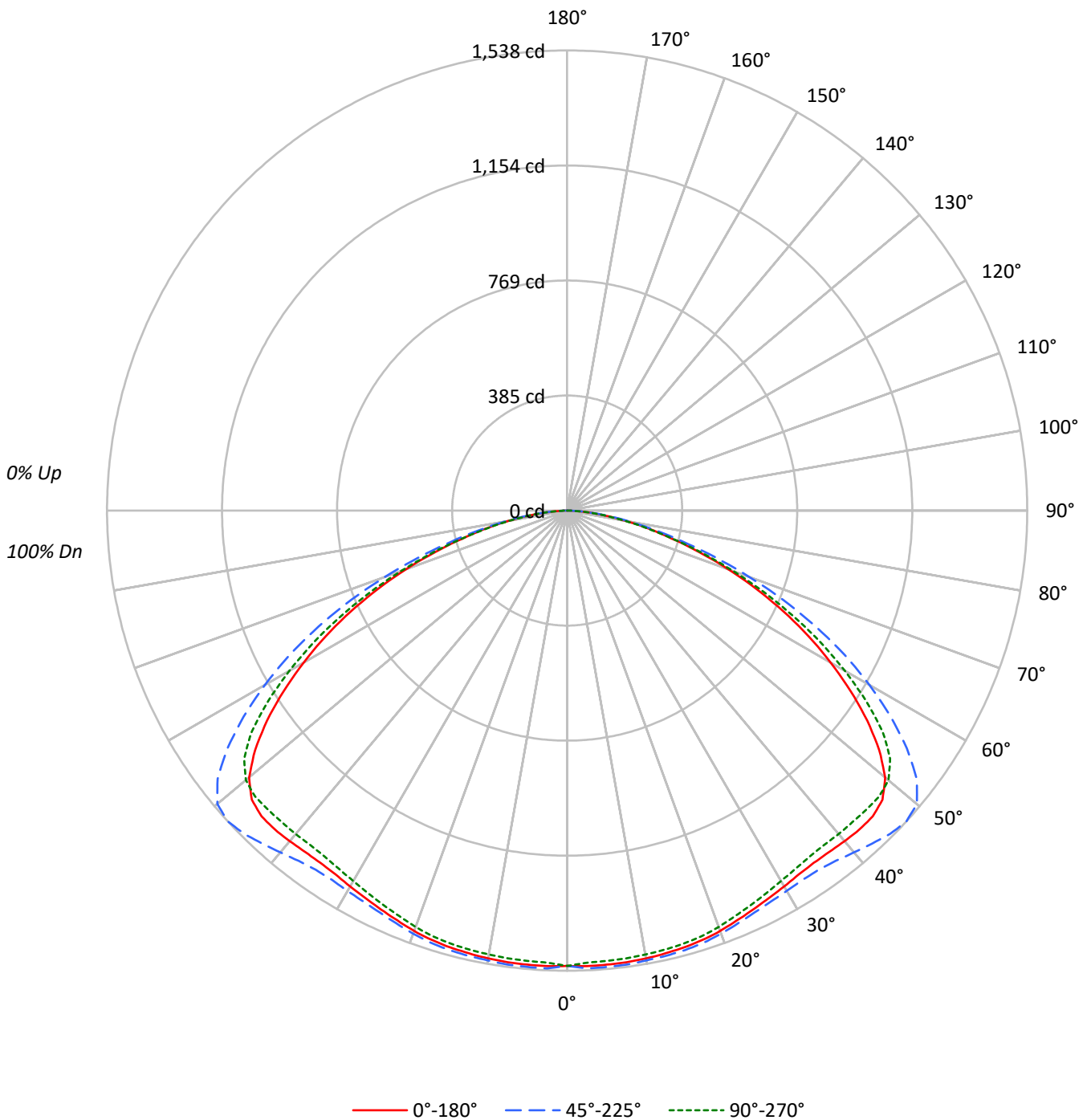
Input Watts (W): 56.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P127949

CATALOG NUMBER: LSM55W8040D010TEP

Luminous Intensity Polar Plot





TEST NUMBER: P127949

CATALOG NUMBER: LSM55W8040D010TEP

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°	16478	16478	16478
5°	16559	16642	16421
10°	16714	16787	16565
15°	16946	17049	16804
20°	17234	17341	17069
25°	17577	17707	17375
30°	18141	18352	17877
35°	19000	19369	18666
40°	20390	21081	19948
45°	22127	23394	21649
50°	23376	25706	23617
55°	23123	26165	24301
60°	22049	25283	23219
65°	20447	23494	21354
70°	18132	20456	18696
75°	15208	16694	15388
80°	12416	13258	12148
85°	8908	9430	8697



TEST NUMBER: P127949

CATALOG NUMBER: LSM55W8040D010TEP

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	2.5
10°-20°	427.0	7.3
20°-30°	680.0	11.7
30°-40°	909.0	15.6
40°-50°	1138.5	19.5
50°-60°	1168.9	20.1
60°-70°	854.2	14.7
70°-80°	414.7	7.1
80°-90°	90.8	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°	1251.9	21.5
0°-40°	2160.9	37.1
0°-60°	4468.3	76.7
0°-90°	5827.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5827.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1523	1518	1531	1512	1511	145
15°	1512	1508	1521	1503	1499	428
25°	1471	1469	1482	1463	1454	681
35°	1437	1445	1465	1434	1412	905
45°	1445	1483	1528	1467	1414	1110
55°	1225	1291	1386	1348	1287	1088
65°	798	849	917	882	833	788
75°	364	383	399	383	368	393
85°	72	74	76	72	70	88
90°	0	0	0	0	0	



TEST NUMBER: P127949

CATALOG NUMBER: LSM55W8040D010TEP

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.7	1521.7	1521.7	1521.7	1521.7
2.5°	1524.2	1519.1	1531.8	1513.2	1512.4
5°	1523.4	1518.3	1531.0	1512.4	1510.7
7.5°	1522.5	1518.3	1530.1	1511.6	1509.9
10°	1520.0	1514.9	1526.7	1509.0	1506.5
12.5°	1515.8	1511.6	1524.2	1505.7	1503.1
15°	1511.6	1508.2	1520.8	1503.1	1498.9
17.5°	1504.8	1501.4	1514.9	1496.4	1492.2
20°	1495.5	1492.2	1504.8	1487.1	1481.2
22.5°	1482.9	1479.5	1493.0	1474.4	1466.8
25°	1471.1	1469.4	1482.0	1462.6	1454.2
27.5°	1460.1	1460.1	1473.6	1452.5	1441.5
30°	1450.8	1452.5	1467.7	1444.1	1429.7
32.5°	1441.5	1446.6	1463.5	1436.5	1419.6
35°	1437.3	1444.9	1465.2	1434.0	1412.0
37.5°	1438.2	1451.7	1475.3	1437.3	1409.5
40°	1442.4	1462.6	1491.3	1445.8	1411.2
42.5°	1445.8	1473.6	1509.0	1455.9	1412.0
45°	1444.9	1482.9	1527.6	1466.8	1413.7
47.5°	1429.7	1478.7	1537.7	1475.3	1414.6
50°	1387.6	1446.6	1525.9	1468.5	1401.9
52.5°	1315.0	1380.8	1472.8	1426.4	1360.6
55°	1224.8	1291.4	1385.9	1347.9	1287.2
57.5°	1123.5	1191.0	1282.1	1245.0	1185.1
60°	1018.1	1081.4	1167.4	1130.3	1072.1
62.5°	909.3	967.5	1045.9	1010.5	955.7
65°	798.0	849.4	916.9	882.3	833.4
67.5°	684.9	727.9	781.9	751.6	710.2
70°	572.7	606.5	646.1	621.7	590.5
72.5°	463.1	494.3	517.9	496.8	474.9
75°	363.5	382.9	399.0	382.9	367.8
77.5°	278.4	289.3	297.8	285.1	273.3
80°	199.1	209.2	212.6	203.3	194.8
82.5°	129.9	136.6	139.2	132.4	127.4
85°	71.7	74.2	75.9	72.5	70.0
87.5°	22.8	23.6	25.3	22.8	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)