

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: P127948

Luminaire Tested: **LSM55W8035D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127948  
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: LSM55W8035D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 80 CRI, 3500K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5807.5 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

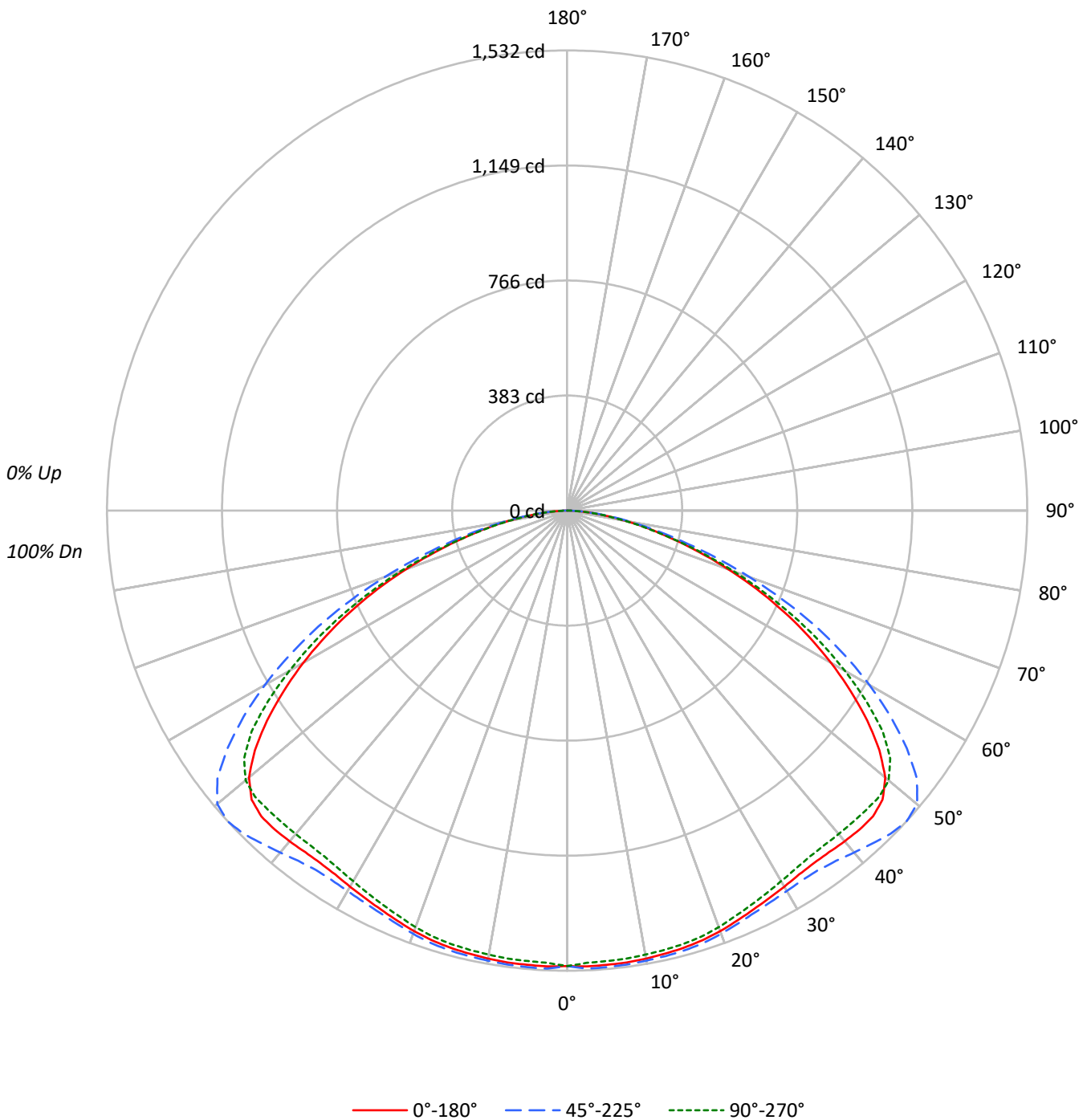
Input Watts (W): 56.22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	16420	16420	16420
5°	16501	16583	16364
10°	16655	16729	16507
15°	16887	16990	16745
20°	17174	17280	17009
25°	17515	17645	17314
30°	18077	18288	17814
35°	18934	19300	18601
40°	20317	21007	19878
45°	22051	23311	21574
50°	23294	25615	23534
55°	23042	26072	24216
60°	21971	25194	23137
65°	20375	23412	21280
70°	18069	20386	18629
75°	15158	16635	15334
80°	12372	13208	12110
85°	8871	9393	8672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.5	2.5
10°-20°	425.5	7.3
20°-30°	677.6	11.7
30°-40°	905.8	15.6
40°-50°	1134.5	19.5
50°-60°	1164.8	20.1
60°-70°	851.2	14.7
70°-80°	413.2	7.1
80°-90°	90.4	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°	1247.5	21.5
0°-40°	2153.3	37.1
0°-60°	4452.6	76.7
0°-90°	5807.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5807.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1518	1513	1526	1507	1505	145
15°	1506	1503	1516	1498	1494	426
25°	1466	1464	1477	1458	1449	678
35°	1432	1440	1460	1429	1407	902
45°	1440	1478	1522	1462	1409	1106
55°	1220	1287	1381	1343	1283	1084
65°	795	846	914	879	830	785
75°	362	382	398	382	366	392
85°	71	74	76	72	70	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1516.3	1516.3	1516.3	1516.3	1516.3
2.5°	1518.9	1513.8	1526.4	1507.9	1507.1
5°	1518.0	1513.0	1525.6	1507.1	1505.4
7.5°	1517.2	1513.0	1524.8	1506.3	1504.6
10°	1514.7	1509.6	1521.4	1503.7	1501.2
12.5°	1510.5	1506.3	1518.9	1500.4	1497.9
15°	1506.3	1502.9	1515.5	1497.9	1493.7
17.5°	1499.5	1496.2	1509.6	1491.1	1486.9
20°	1490.3	1486.9	1499.5	1481.9	1476.0
22.5°	1477.7	1474.3	1487.8	1469.3	1461.7
25°	1465.9	1464.2	1476.8	1457.5	1449.1
27.5°	1455.0	1455.0	1468.4	1447.4	1436.5
30°	1445.7	1447.4	1462.6	1439.0	1424.7
32.5°	1436.5	1441.5	1458.3	1431.5	1414.6
35°	1432.3	1439.9	1460.0	1428.9	1407.1
37.5°	1433.1	1446.6	1470.1	1432.3	1404.6
40°	1437.3	1457.5	1486.1	1440.7	1406.2
42.5°	1440.7	1468.4	1503.7	1450.8	1407.1
45°	1439.9	1477.7	1522.2	1461.7	1408.8
47.5°	1424.7	1473.5	1532.3	1470.1	1409.6
50°	1382.7	1441.5	1520.5	1463.4	1397.0
52.5°	1310.4	1376.0	1467.6	1421.4	1355.8
55°	1220.5	1286.9	1381.0	1343.2	1282.7
57.5°	1119.6	1186.9	1277.6	1240.6	1181.0
60°	1014.5	1077.6	1163.3	1126.3	1068.3
62.5°	906.1	964.1	1042.3	1007.0	952.3
65°	795.2	846.4	913.7	879.2	830.5
67.5°	682.5	725.4	779.2	748.9	707.7
70°	570.7	604.4	643.9	619.5	588.4
72.5°	461.5	492.6	516.1	495.1	473.2
75°	362.3	381.6	397.6	381.6	366.5
77.5°	277.4	288.3	296.7	284.1	272.3
80°	198.4	208.5	211.8	202.6	194.2
82.5°	129.4	136.2	138.7	132.0	126.9
85°	71.4	74.0	75.6	72.3	69.8
87.5°	22.7	23.5	25.2	22.7	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)