

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: P127947

Luminaire Tested: **LSM55W8030D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127947  
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: LSM55W8030D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 80 CRI, 3000K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5479.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

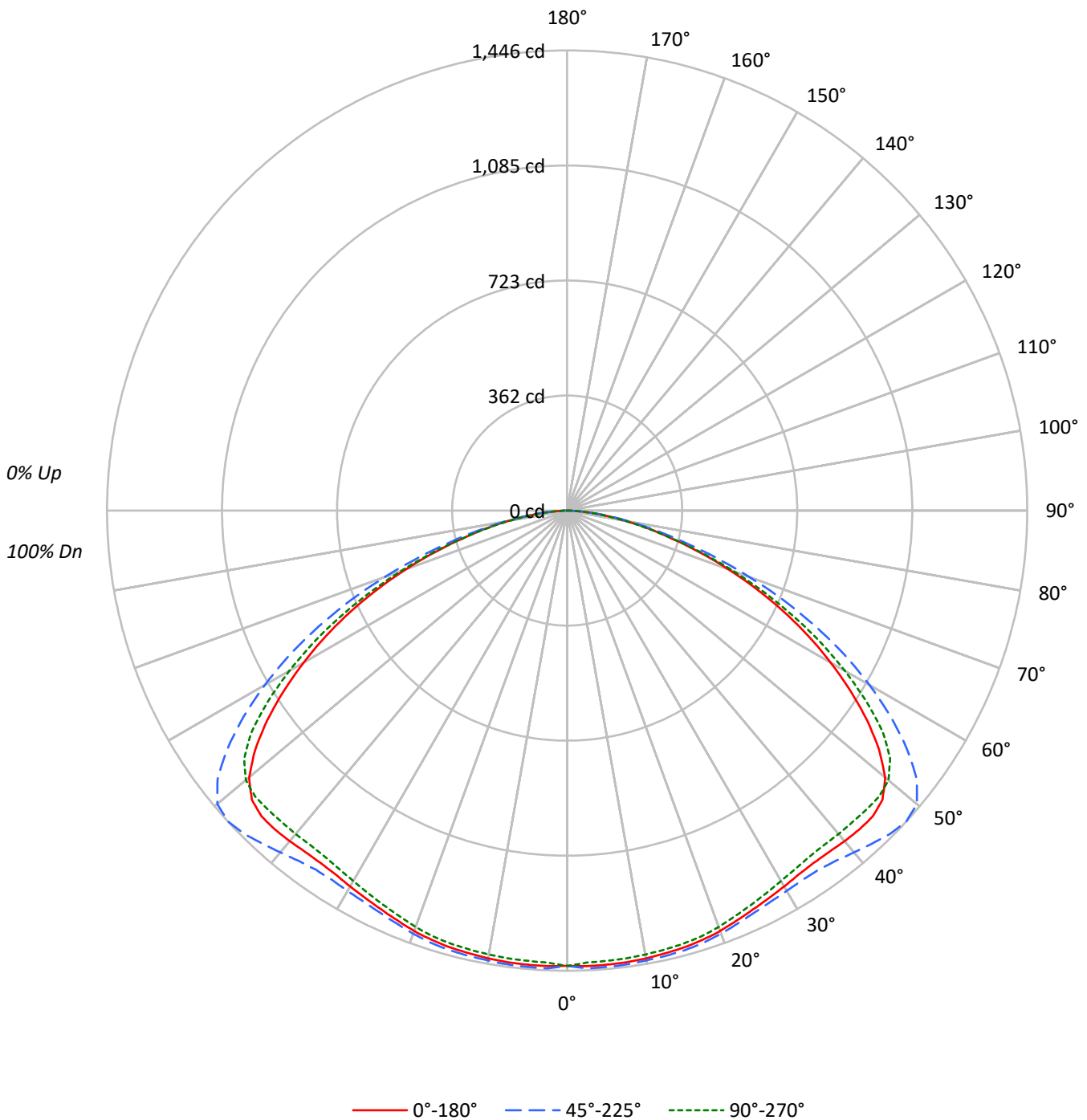
Input Watts (W): 56.22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15492	15492	15492
5°	15568	15645	15439
10°	15713	15782	15573
15°	15931	16029	15798
20°	16202	16302	16047
25°	16524	16647	16334
30°	17055	17253	16806
35°	17863	18208	17549
40°	19168	19818	18754
45°	20803	21993	20354
50°	21976	24166	22204
55°	21738	24598	22846
60°	20728	23769	21828
65°	19222	22087	20075
70°	17046	19231	17575
75°	14300	15694	14464
80°	11668	12459	11424
85°	8374	8871	8175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	2.5
10°-20°	401.4	7.3
20°-30°	639.2	11.7
30°-40°	854.6	15.6
40°-50°	1070.3	19.5
50°-60°	1098.9	20.1
60°-70°	803.1	14.7
70°-80°	389.8	7.1
80°-90°	85.3	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°	1177.0	21.5
0°-40°	2031.5	37.1
0°-60°	4200.8	76.7
0°-90°	5479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1432	1427	1439	1422	1420	137
15°	1421	1418	1430	1413	1409	402
25°	1383	1381	1393	1375	1367	640
35°	1351	1358	1377	1348	1328	851
45°	1358	1394	1436	1379	1329	1043
55°	1151	1214	1303	1267	1210	1023
65°	750	798	862	830	784	741
75°	342	360	375	360	346	369
85°	67	70	71	68	66	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1430.6	1430.6	1430.6	1430.6	1430.6
2.5°	1432.9	1428.2	1440.1	1422.6	1421.8
5°	1432.2	1427.4	1439.3	1421.8	1420.3
7.5°	1431.4	1427.4	1438.5	1421.1	1419.5
10°	1429.0	1424.2	1435.3	1418.7	1416.3
12.5°	1425.0	1421.1	1432.9	1415.5	1413.1
15°	1421.1	1417.9	1429.8	1413.1	1409.2
17.5°	1414.7	1411.5	1424.2	1406.8	1402.8
20°	1406.0	1402.8	1414.7	1398.1	1392.5
22.5°	1394.1	1390.9	1403.6	1386.2	1379.0
25°	1383.0	1381.4	1393.3	1375.1	1367.1
27.5°	1372.7	1372.7	1385.4	1365.5	1355.2
30°	1364.0	1365.5	1379.8	1357.6	1344.1
32.5°	1355.2	1360.0	1375.9	1350.5	1334.6
35°	1351.3	1358.4	1377.4	1348.1	1327.5
37.5°	1352.1	1364.8	1387.0	1351.3	1325.1
40°	1356.0	1375.1	1402.0	1359.2	1326.7
42.5°	1359.2	1385.4	1418.7	1368.7	1327.5
45°	1358.4	1394.1	1436.1	1379.0	1329.1
47.5°	1344.1	1390.1	1445.6	1387.0	1329.9
50°	1304.5	1360.0	1434.5	1380.6	1318.0
52.5°	1236.3	1298.1	1384.6	1341.0	1279.1
55°	1151.4	1214.1	1302.9	1267.2	1210.1
57.5°	1056.3	1119.7	1205.4	1170.5	1114.2
60°	957.1	1016.6	1097.5	1062.6	1007.9
62.5°	854.9	909.6	983.3	950.0	898.5
65°	750.2	798.5	862.0	829.5	783.5
67.5°	643.9	684.4	735.1	706.6	667.7
70°	538.4	570.2	607.4	584.4	555.1
72.5°	435.4	464.7	486.9	467.1	446.5
75°	341.8	360.0	375.1	360.0	345.7
77.5°	261.7	272.0	279.9	268.0	256.9
80°	187.1	196.7	199.8	191.1	183.2
82.5°	122.1	128.5	130.8	124.5	119.7
85°	67.4	69.8	71.4	68.2	65.8
87.5°	21.4	22.2	23.8	21.4	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)