

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: P127950

Luminaire Tested: **LSM55W9027D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127950
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: LSM55W9027D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 2700K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

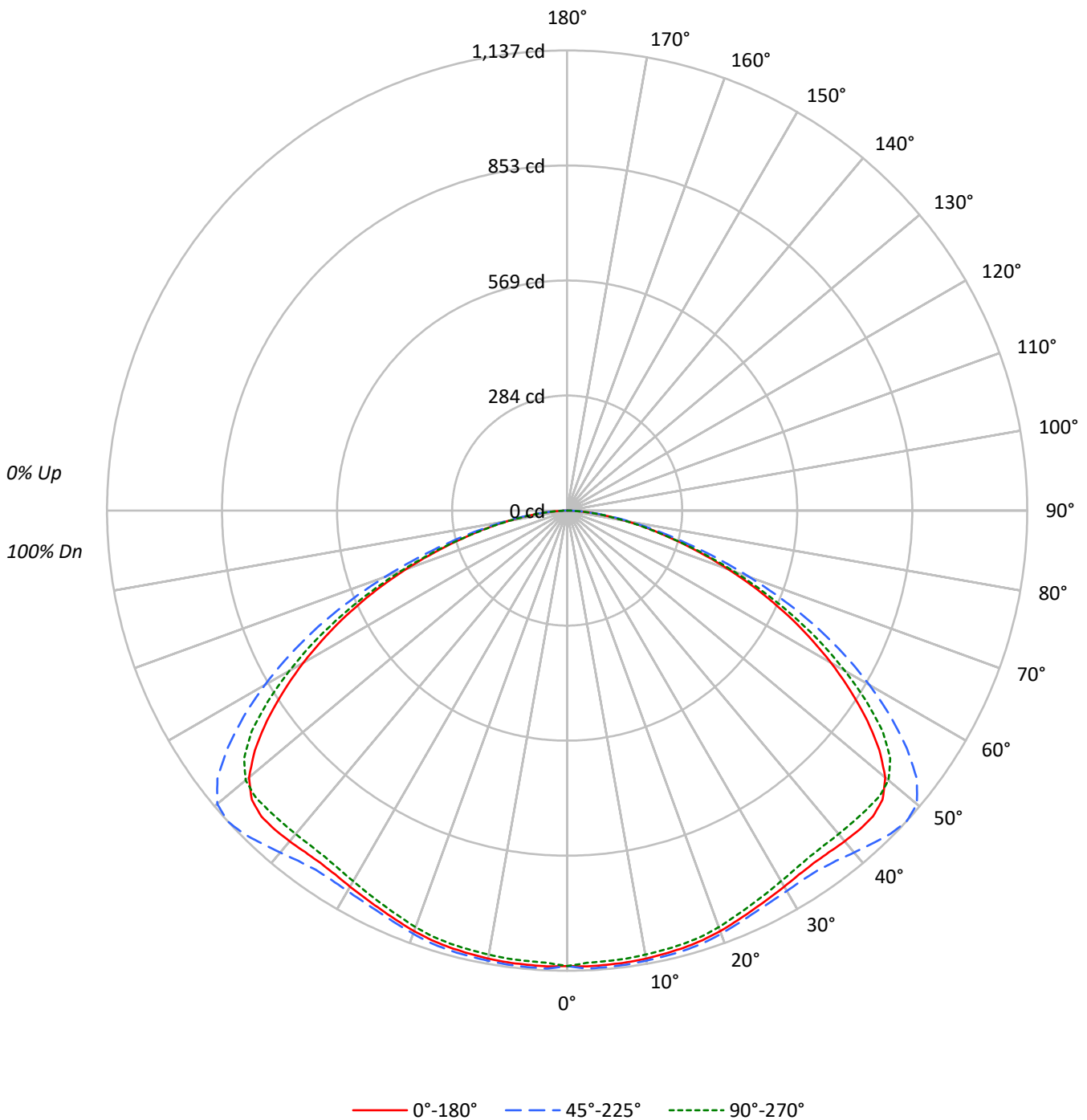
Lumens per Lamp: N/A
Luminaire Lumens: 4309.9 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.43 / 1.73
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

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



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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°	12186	12186	12186
5°	12246	12307	12144
10°	12360	12415	12250
15°	12531	12609	12427
20°	12745	12824	12623
25°	12998	13095	12849
30°	13415	13572	13220
35°	14051	14323	13804
40°	15079	15590	14752
45°	16365	17300	16011
50°	17286	19010	17465
55°	17099	19349	17971
60°	16306	18697	17170
65°	15120	17375	15791
70°	13412	15128	13826
75°	11250	12347	11380
80°	9179	9803	8986
85°	6585	6970	6436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	2.5
10°-20°	315.8	7.3
20°-30°	502.8	11.7
30°-40°	672.2	15.6
40°-50°	842.0	19.5
50°-60°	864.4	20.1
60°-70°	631.7	14.7
70°-80°	306.7	7.1
80°-90°	67.1	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°	925.8	21.5
0°-40°	1598.0	37.1
0°-60°	3304.4	76.7
0°-90°	4309.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4309.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1127	1123	1132	1118	1117	107
15°	1118	1115	1125	1112	1108	316
25°	1088	1087	1096	1082	1075	503
35°	1063	1069	1084	1060	1044	669
45°	1069	1097	1130	1085	1046	821
55°	906	955	1025	997	952	805
65°	590	628	678	652	616	583
75°	269	283	295	283	272	291
85°	53	55	56	54	52	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.3	1125.3	1125.3	1125.3	1125.3
2.5°	1127.2	1123.5	1132.8	1119.1	1118.5
5°	1126.6	1122.8	1132.2	1118.5	1117.2
7.5°	1125.9	1122.8	1131.6	1117.8	1116.6
10°	1124.1	1120.3	1129.1	1116.0	1114.1
12.5°	1121.0	1117.8	1127.2	1113.5	1111.6
15°	1117.8	1115.3	1124.7	1111.6	1108.5
17.5°	1112.8	1110.4	1120.3	1106.6	1103.5
20°	1106.0	1103.5	1112.8	1099.7	1095.4
22.5°	1096.6	1094.1	1104.1	1090.4	1084.8
25°	1087.9	1086.6	1096.0	1081.7	1075.4
27.5°	1079.8	1079.8	1089.8	1074.2	1066.1
30°	1072.9	1074.2	1085.4	1067.9	1057.3
32.5°	1066.1	1069.8	1082.3	1062.3	1049.8
35°	1062.9	1068.6	1083.5	1060.4	1044.2
37.5°	1063.6	1073.5	1091.0	1062.9	1042.4
40°	1066.7	1081.7	1102.9	1069.2	1043.6
42.5°	1069.2	1089.8	1116.0	1076.7	1044.2
45°	1068.6	1096.6	1129.7	1084.8	1045.5
47.5°	1057.3	1093.5	1137.2	1091.0	1046.1
50°	1026.1	1069.8	1128.4	1086.0	1036.7
52.5°	972.5	1021.2	1089.1	1054.8	1006.2
55°	905.7	955.0	1024.9	996.8	951.9
57.5°	830.9	880.8	948.2	920.7	876.4
60°	752.9	799.7	863.3	835.9	792.8
62.5°	672.4	715.5	773.5	747.3	706.8
65°	590.1	628.2	678.1	652.5	616.3
67.5°	506.5	538.3	578.3	555.8	525.2
70°	423.6	448.5	477.8	459.7	436.7
72.5°	342.5	365.5	383.0	367.4	351.2
75°	268.9	283.2	295.1	283.2	272.0
77.5°	205.9	214.0	220.2	210.8	202.1
80°	147.2	154.7	157.2	150.3	144.1
82.5°	96.1	101.1	102.9	97.9	94.2
85°	53.0	54.9	56.1	53.6	51.8
87.5°	16.8	17.5	18.7	16.8	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)