

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: P127951

Luminaire Tested: **LSM55W9030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127951
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: LSM55W9030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506.2 lumens
Efficiency: N/A
Efficacy: 80.2 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

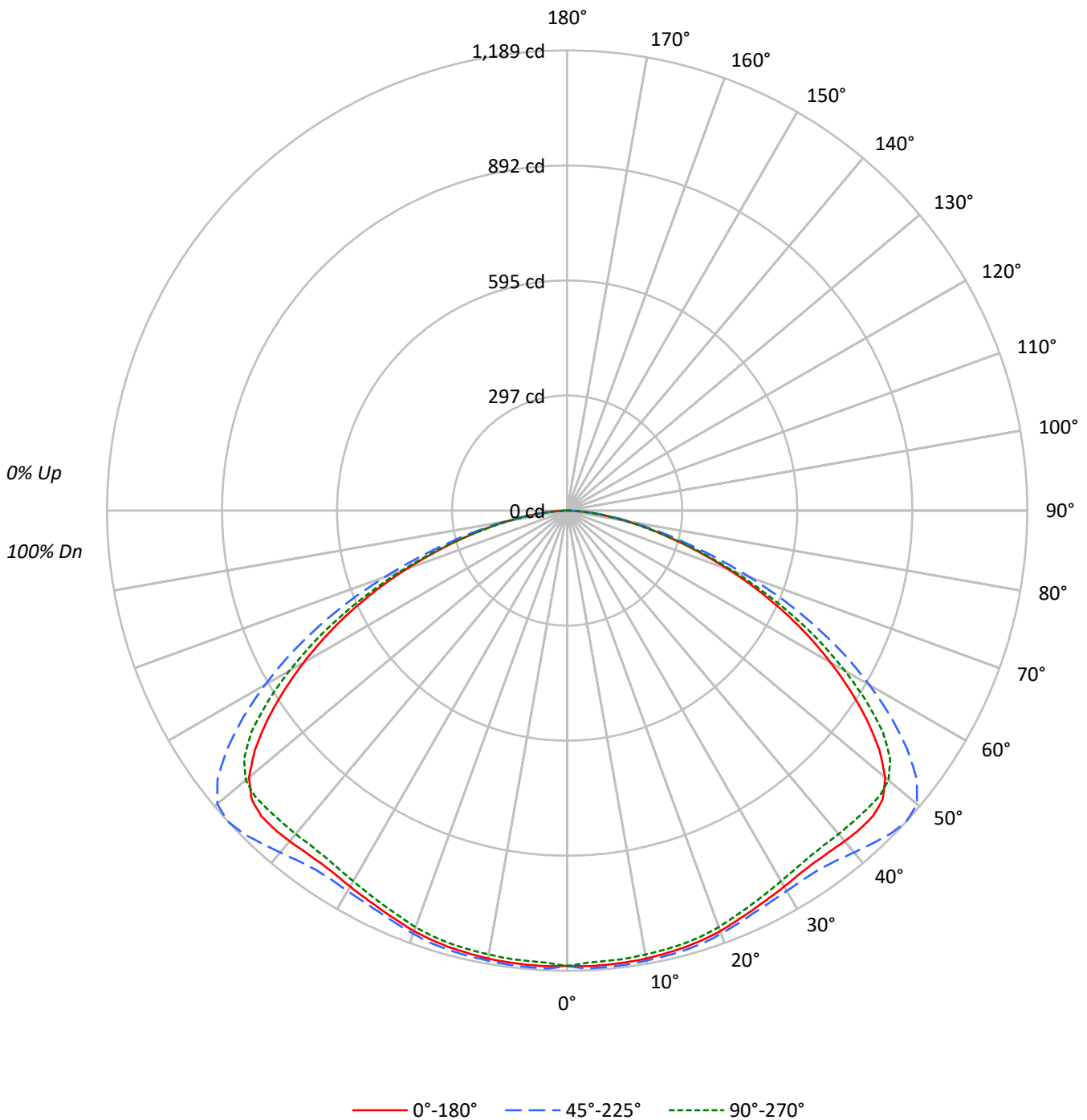
Input Watts (W): 56.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12741	12741	12741
5°	12804	12868	12697
10°	12923	12980	12808
15°	13103	13183	12993
20°	13326	13408	13198
25°	13590	13691	13434
30°	14027	14189	13823
35°	14692	14976	14433
40°	15766	16300	15424
45°	17109	18087	16740
50°	18075	19875	18262
55°	17879	20231	18790
60°	17049	19550	17954
65°	15809	18164	16511
70°	14019	15818	14453
75°	11761	12907	11899
80°	9597	10252	9398
85°	6883	7293	6722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	2.5
10°-20°	330.1	7.3
20°-30°	525.7	11.7
30°-40°	702.8	15.6
40°-50°	880.3	19.5
50°-60°	903.8	20.1
60°-70°	660.5	14.7
70°-80°	320.6	7.1
80°-90°	70.2	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°	968.0	21.5
0°-40°	1670.8	37.1
0°-60°	3454.9	76.7
0°-90°	4506.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1178	1174	1184	1169	1168	112
15°	1169	1166	1176	1162	1159	331
25°	1137	1136	1146	1131	1124	526
35°	1111	1117	1133	1109	1092	700
45°	1117	1147	1181	1134	1093	858
55°	947	998	1072	1042	995	841
65°	617	657	709	682	644	609
75°	281	296	308	296	284	304
85°	55	57	59	56	54	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1178.5	1174.6	1184.4	1170.1	1169.4
5°	1177.9	1174.0	1183.8	1169.4	1168.1
7.5°	1177.2	1174.0	1183.1	1168.8	1167.4
10°	1175.3	1171.4	1180.5	1166.8	1164.8
12.5°	1172.0	1168.8	1178.5	1164.2	1162.2
15°	1168.8	1166.1	1175.9	1162.2	1159.0
17.5°	1163.5	1160.9	1171.4	1157.0	1153.7
20°	1156.4	1153.7	1163.5	1149.8	1145.3
22.5°	1146.6	1144.0	1154.4	1140.1	1134.2
25°	1137.4	1136.1	1145.9	1130.9	1124.4
27.5°	1129.0	1129.0	1139.4	1123.1	1114.6
30°	1121.8	1123.1	1134.8	1116.6	1105.5
32.5°	1114.6	1118.5	1131.6	1110.7	1097.7
35°	1111.4	1117.2	1132.9	1108.7	1091.8
37.5°	1112.0	1122.4	1140.7	1111.4	1089.8
40°	1115.3	1130.9	1153.1	1117.9	1091.1
42.5°	1117.9	1139.4	1166.8	1125.7	1091.8
45°	1117.2	1146.6	1181.1	1134.2	1093.1
47.5°	1105.5	1143.3	1189.0	1140.7	1093.7
50°	1072.9	1118.5	1179.8	1135.5	1084.0
52.5°	1016.8	1067.7	1138.7	1102.9	1052.0
55°	947.0	998.5	1071.6	1042.2	995.3
57.5°	868.7	920.9	991.4	962.7	916.3
60°	787.2	836.1	902.7	874.0	829.0
62.5°	703.1	748.1	808.7	781.3	738.9
65°	617.0	656.8	708.9	682.2	644.4
67.5°	529.6	562.9	604.6	581.1	549.2
70°	442.8	468.9	499.6	480.7	456.5
72.5°	358.1	382.2	400.5	384.1	367.2
75°	281.1	296.1	308.5	296.1	284.4
77.5°	215.2	223.7	230.2	220.4	211.3
80°	153.9	161.7	164.4	157.2	150.7
82.5°	100.4	105.7	107.6	102.4	98.5
85°	55.4	57.4	58.7	56.1	54.1
87.5°	17.6	18.3	19.6	17.6	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)