

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: P127946

Luminaire Tested: **LSM55W8027D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127946
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: LSM55W8027D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 2700K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5122.1 lumens
Efficiency: N/A
Efficacy: 91.1 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

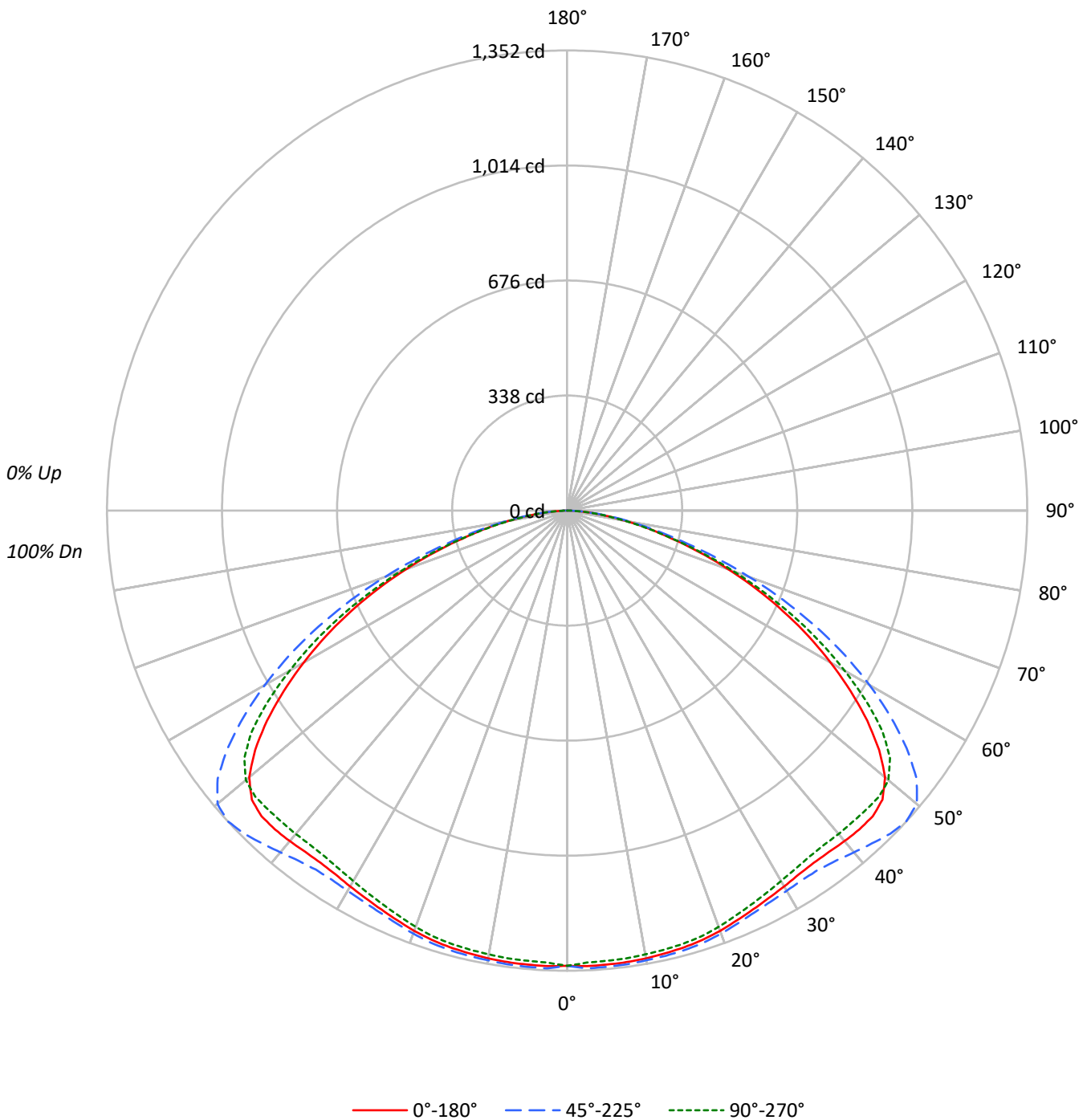
Input Watts (W): 56.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14482	14482	14482
5°	14554	14626	14432
10°	14689	14754	14558
15°	14893	14984	14769
20°	15147	15241	15001
25°	15448	15562	15271
30°	15944	16129	15712
35°	16700	17023	16405
40°	17920	18528	17533
45°	19447	20561	19028
50°	20544	22593	20756
55°	20322	22995	21358
60°	19379	22220	20406
65°	17969	20647	18766
70°	15938	17980	16429
75°	13367	14673	13522
80°	10913	11649	10682
85°	7827	8287	7641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.5
10°-20°	375.3	7.3
20°-30°	597.6	11.7
30°-40°	798.9	15.6
40°-50°	1000.6	19.5
50°-60°	1027.3	20.1
60°-70°	750.8	14.7
70°-80°	364.5	7.1
80°-90°	79.8	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°	1100.3	21.5
0°-40°	1899.2	37.1
0°-60°	3927.1	76.7
0°-90°	5122.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5122.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1339	1334	1346	1329	1328	128
15°	1328	1326	1337	1321	1317	376
25°	1293	1291	1302	1286	1278	598
35°	1263	1270	1288	1260	1241	795
45°	1270	1303	1343	1289	1242	976
55°	1076	1135	1218	1185	1131	956
65°	701	746	806	775	732	693
75°	320	337	351	337	323	345
85°	63	65	67	64	62	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1339.6	1335.2	1346.3	1330.0	1329.2
5°	1338.9	1334.4	1345.5	1329.2	1327.7
7.5°	1338.1	1334.4	1344.8	1328.5	1327.0
10°	1335.9	1331.5	1341.8	1326.3	1324.0
12.5°	1332.2	1328.5	1339.6	1323.3	1321.1
15°	1328.5	1325.5	1336.6	1321.1	1317.4
17.5°	1322.6	1319.6	1331.5	1315.1	1311.4
20°	1314.4	1311.4	1322.6	1307.0	1301.8
22.5°	1303.3	1300.3	1312.2	1295.9	1289.2
25°	1292.9	1291.4	1302.5	1285.5	1278.1
27.5°	1283.3	1283.3	1295.1	1276.6	1267.0
30°	1275.1	1276.6	1289.9	1269.2	1256.6
32.5°	1267.0	1271.4	1286.2	1262.5	1247.7
35°	1263.3	1269.9	1287.7	1260.3	1241.0
37.5°	1264.0	1275.9	1296.6	1263.3	1238.8
40°	1267.7	1285.5	1310.7	1270.7	1240.3
42.5°	1270.7	1295.1	1326.3	1279.6	1241.0
45°	1269.9	1303.3	1342.6	1289.2	1242.5
47.5°	1256.6	1299.6	1351.5	1296.6	1243.2
50°	1219.5	1271.4	1341.1	1290.7	1232.1
52.5°	1155.8	1213.6	1294.4	1253.6	1195.8
55°	1076.4	1135.0	1218.0	1184.7	1131.3
57.5°	987.5	1046.8	1126.8	1094.2	1041.6
60°	894.8	950.4	1026.0	993.4	942.2
62.5°	799.2	850.3	919.3	888.1	839.9
65°	701.3	746.5	805.8	775.4	732.4
67.5°	602.0	639.8	687.2	660.5	624.2
70°	503.4	533.0	567.9	546.4	518.9
72.5°	407.0	434.4	455.2	436.7	417.4
75°	319.5	336.6	350.7	336.6	323.2
77.5°	244.6	254.3	261.7	250.6	240.2
80°	175.0	183.9	186.8	178.7	171.3
82.5°	114.2	120.1	122.3	116.4	111.9
85°	63.0	65.2	66.7	63.8	61.5
87.5°	20.0	20.8	22.2	20.0	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)