

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: P127953

Luminaire Tested: **LSM55W9040D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127953  
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: LSM55W9040D010TEP  
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE  
Light Source: 90 CRI, 4000K CCT LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4770.8 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

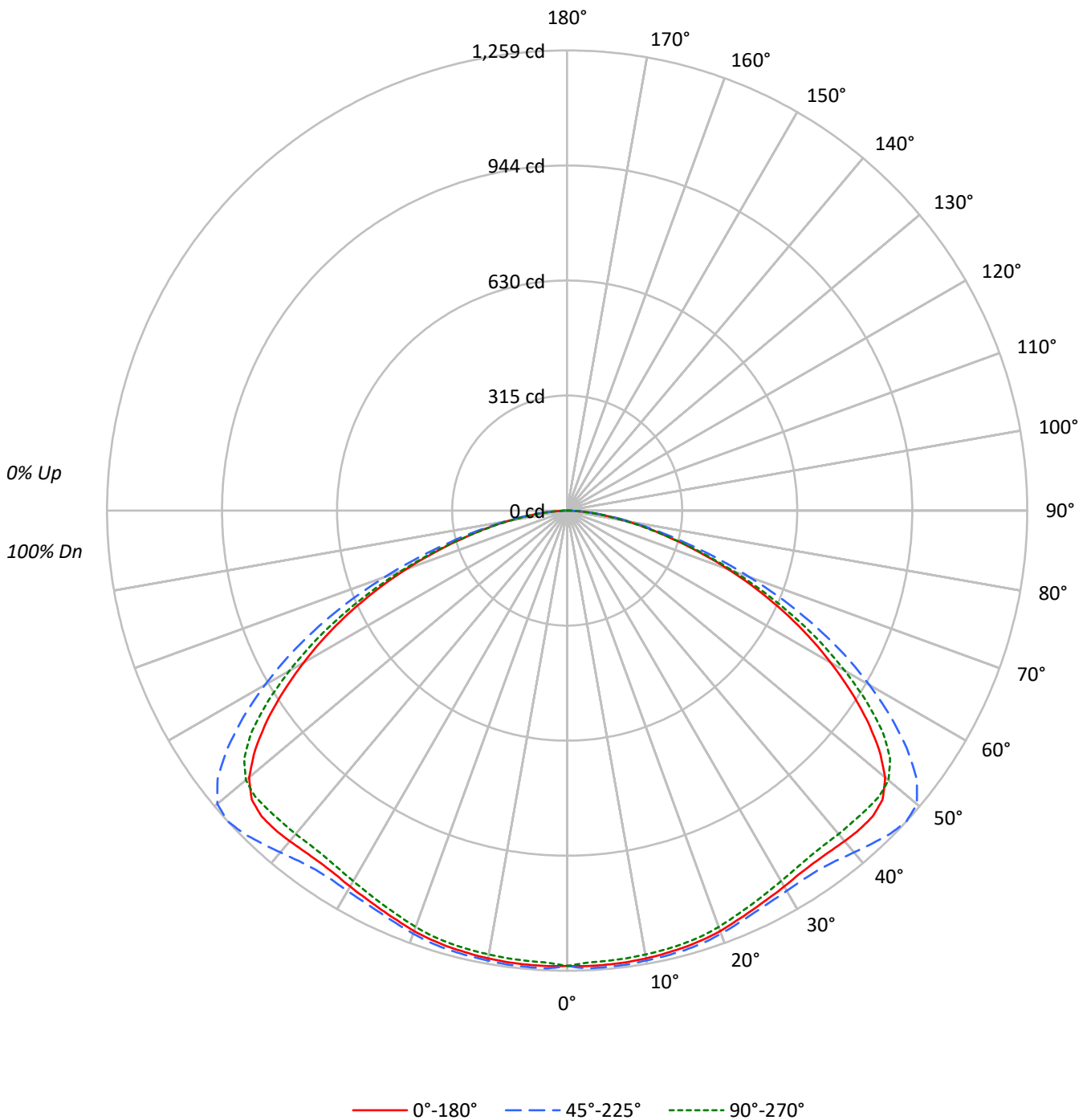
Input Watts (W): 56.22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	13489	13489	13489
5°	13556	13623	13443
10°	13682	13742	13560
15°	13872	13957	13755
20°	14108	14196	13972
25°	14388	14495	14223
30°	14851	15023	14635
35°	15554	15855	15280
40°	16692	17257	16330
45°	18113	19150	17723
50°	19136	21043	19333
55°	18928	21418	19893
60°	18049	20698	19006
65°	16737	19232	17480
70°	14846	16745	15305
75°	12451	13665	12598
80°	10165	10851	9946
85°	7293	7716	7119



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	2.5
10°-20°	349.5	7.3
20°-30°	556.6	11.7
30°-40°	744.1	15.6
40°-50°	932.0	19.5
50°-60°	956.9	20.1
60°-70°	699.3	14.7
70°-80°	339.4	7.1
80°-90°	74.3	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°	1024.8	21.5
0°-40°	1768.9	37.1
0°-60°	3657.8	76.7
0°-90°	4770.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1247	1243	1253	1238	1237	119
15°	1237	1235	1245	1230	1227	350
25°	1204	1203	1213	1197	1190	557
35°	1177	1183	1199	1174	1156	741
45°	1183	1214	1250	1201	1157	909
55°	1003	1057	1134	1103	1054	891
65°	653	695	751	722	682	645
75°	298	314	327	314	301	322
85°	59	61	62	59	57	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1247.7	1243.6	1254.0	1238.8	1238.1
5°	1247.1	1242.9	1253.3	1238.1	1236.7
7.5°	1246.4	1242.9	1252.6	1237.4	1236.0
10°	1244.3	1240.1	1249.8	1235.3	1233.2
12.5°	1240.8	1237.4	1247.7	1232.6	1230.5
15°	1237.4	1234.6	1245.0	1230.5	1227.0
17.5°	1231.9	1229.1	1240.1	1225.0	1221.5
20°	1224.3	1221.5	1231.9	1217.4	1212.5
22.5°	1213.9	1211.1	1222.2	1207.0	1200.8
25°	1204.2	1202.9	1213.2	1197.3	1190.4
27.5°	1195.3	1195.3	1206.3	1189.1	1180.1
30°	1187.7	1189.1	1201.5	1182.1	1170.4
32.5°	1180.1	1184.2	1198.0	1175.9	1162.1
35°	1176.6	1182.8	1199.4	1173.9	1155.9
37.5°	1177.3	1188.4	1207.7	1176.6	1153.8
40°	1180.8	1197.3	1220.8	1183.5	1155.2
42.5°	1183.5	1206.3	1235.3	1191.8	1155.9
45°	1182.8	1213.9	1250.5	1200.8	1157.3
47.5°	1170.4	1210.5	1258.8	1207.7	1158.0
50°	1135.9	1184.2	1249.1	1202.2	1147.6
52.5°	1076.5	1130.4	1205.6	1167.6	1113.8
55°	1002.6	1057.2	1134.5	1103.4	1053.7
57.5°	919.8	975.0	1049.6	1019.2	970.2
60°	833.4	885.2	955.7	925.3	877.6
62.5°	744.4	792.0	856.2	827.2	782.3
65°	653.2	695.3	750.6	722.3	682.2
67.5°	560.7	595.9	640.1	615.2	581.4
70°	468.9	496.5	528.9	508.9	483.4
72.5°	379.1	404.6	424.0	406.7	388.8
75°	297.6	313.5	326.6	313.5	301.1
77.5°	227.9	236.8	243.7	233.4	223.7
80°	163.0	171.2	174.0	166.4	159.5
82.5°	106.3	111.9	113.9	108.4	104.3
85°	58.7	60.8	62.1	59.4	57.3
87.5°	18.6	19.3	20.7	18.6	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)