

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: P127952

Luminaire Tested: **LSM55W9035D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127952
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: LSM55W9035D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 3500K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620.3 lumens
Efficiency: N/A
Efficacy: 82.2 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

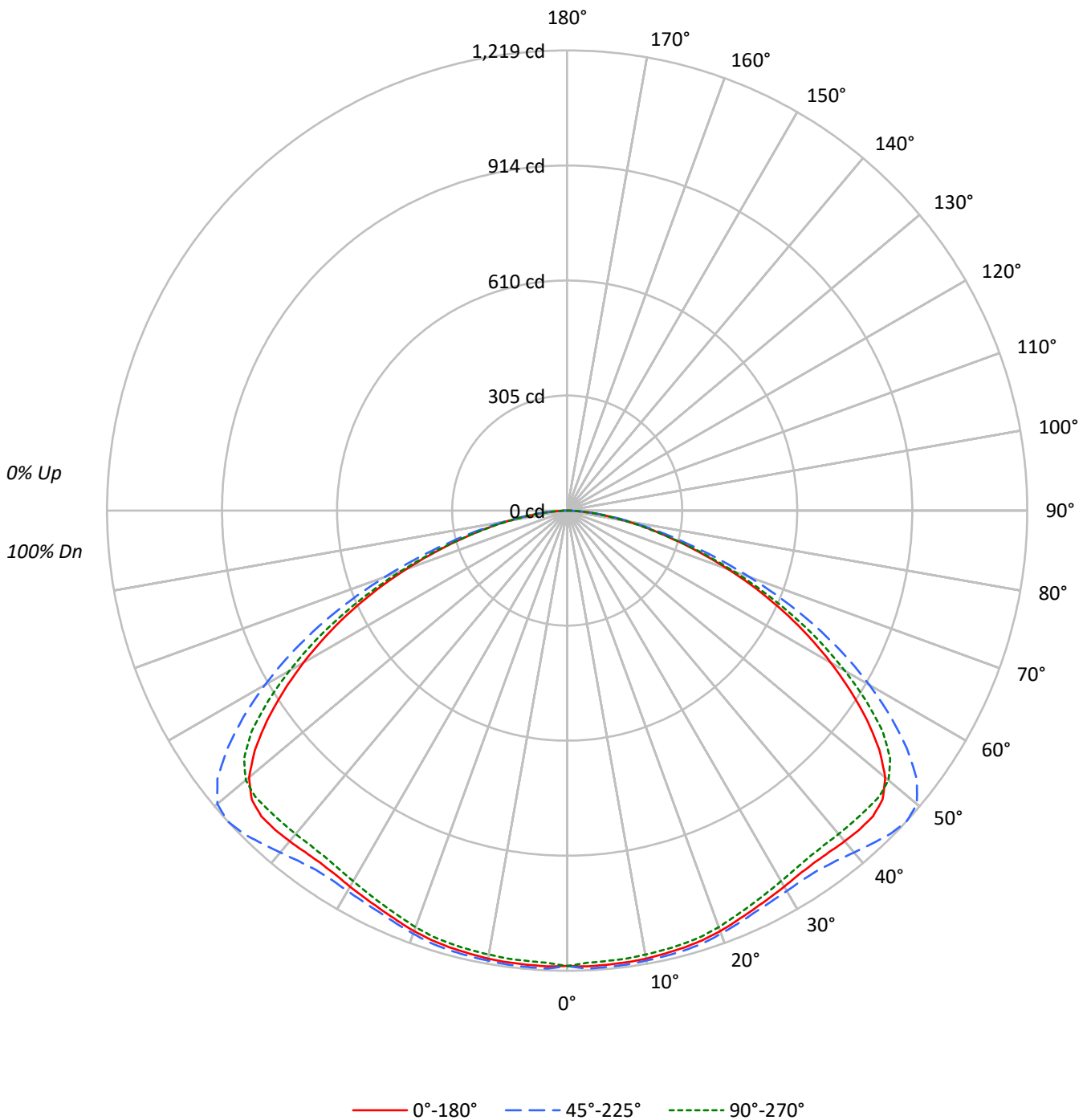
Input Watts (W): 56.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49
5	73	60	50	43	71	59	50	43	57	49	43	54	48	42	53	47	42
6	67	53	44	37	65	52	43	37	51	43	37	49	42	36	47	41	36
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25
10	50	36	28	23	49	36	28	23	35	28	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13064	13064	13064
5°	13128	13193	13019
10°	13250	13309	13132
15°	13434	13517	13322
20°	13662	13748	13532
25°	13934	14038	13775
30°	14382	14550	14173
35°	15063	15356	14798
40°	16164	16713	15815
45°	17542	18547	17164
50°	18531	20379	18723
55°	18332	20743	19266
60°	17480	20044	18407
65°	16209	18625	16929
70°	14377	16217	14820
75°	12058	13234	12200
80°	9840	10508	9635
85°	7057	7480	6896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	2.5
10°-20°	338.5	7.3
20°-30°	539.1	11.7
30°-40°	720.6	15.6
40°-50°	902.6	19.5
50°-60°	926.7	20.1
60°-70°	677.2	14.7
70°-80°	328.7	7.1
80°-90°	71.9	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°	992.5	21.5
0°-40°	1713.1	37.1
0°-60°	3542.4	76.7
0°-90°	4620.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1208	1204	1214	1199	1198	115
15°	1198	1196	1206	1192	1188	339
25°	1166	1165	1175	1160	1153	540
35°	1140	1146	1162	1137	1119	718
45°	1146	1176	1211	1163	1121	880
55°	971	1024	1099	1069	1020	863
65°	633	673	727	700	661	625
75°	288	304	316	304	292	311
85°	57	59	60	58	56	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.4	1206.4	1206.4	1206.4	1206.4
2.5°	1208.4	1204.4	1214.4	1199.7	1199.0
5°	1207.7	1203.7	1213.7	1199.0	1197.7
7.5°	1207.0	1203.7	1213.1	1198.3	1197.0
10°	1205.0	1201.0	1210.4	1196.3	1194.3
12.5°	1201.7	1198.3	1208.4	1193.7	1191.7
15°	1198.3	1195.7	1205.7	1191.7	1188.3
17.5°	1193.0	1190.3	1201.0	1186.3	1183.0
20°	1185.6	1183.0	1193.0	1179.0	1174.3
22.5°	1175.6	1172.9	1183.6	1168.9	1162.9
25°	1166.2	1164.9	1174.9	1159.6	1152.9
27.5°	1157.6	1157.6	1168.3	1151.5	1142.8
30°	1150.2	1151.5	1163.6	1144.8	1133.5
32.5°	1142.8	1146.9	1160.2	1138.8	1125.5
35°	1139.5	1145.5	1161.6	1136.8	1119.4
37.5°	1140.2	1150.9	1169.6	1139.5	1117.4
40°	1143.5	1159.6	1182.3	1146.2	1118.8
42.5°	1146.2	1168.3	1196.3	1154.2	1119.4
45°	1145.5	1175.6	1211.1	1162.9	1120.8
47.5°	1133.5	1172.3	1219.1	1169.6	1121.4
50°	1100.0	1146.9	1209.7	1164.2	1111.4
52.5°	1042.5	1094.7	1167.6	1130.8	1078.6
55°	971.0	1023.8	1098.7	1068.6	1020.5
57.5°	890.7	944.2	1016.5	987.0	939.6
60°	807.1	857.3	925.5	896.1	849.9
62.5°	720.9	767.0	829.2	801.1	757.7
65°	632.6	673.4	726.9	699.5	660.7
67.5°	543.0	577.1	619.9	595.8	563.1
70°	454.1	480.8	512.2	492.8	468.1
72.5°	367.1	391.9	410.6	393.9	376.5
75°	288.2	303.6	316.3	303.6	291.6
77.5°	220.7	229.4	236.1	226.0	216.7
80°	157.8	165.8	168.5	161.2	154.5
82.5°	103.0	108.3	110.3	105.0	101.0
85°	56.8	58.8	60.2	57.5	55.5
87.5°	18.1	18.7	20.1	18.1	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)