

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: P127941

Luminaire Tested: **LSM45W8040D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127941
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: LSM45W8040D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 4000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

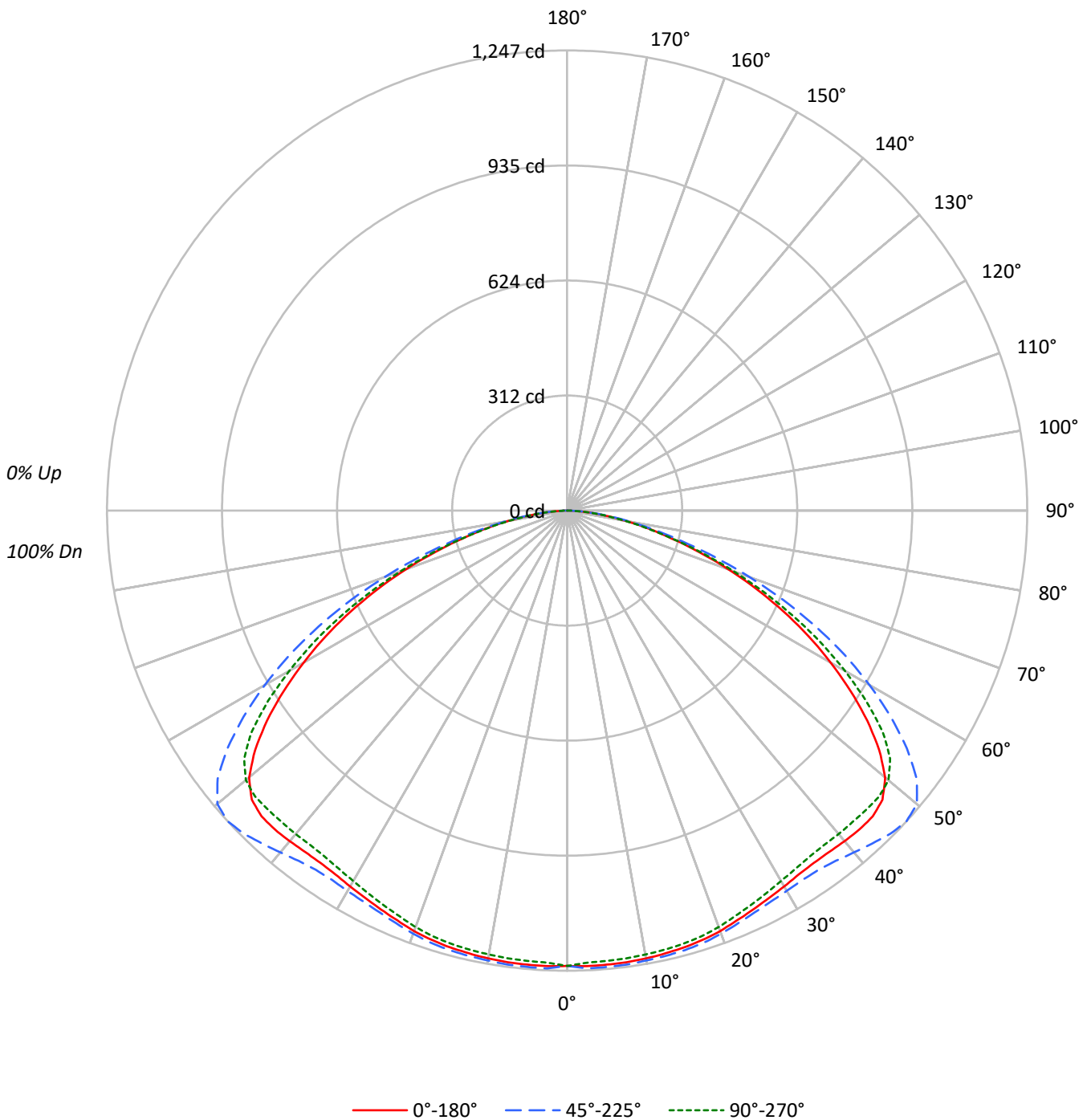
Lumens per Lamp: N/A
Luminaire Lumens: 4725.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.43 / 1.73
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

Input Watts (W): 44.68
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°	13360	13360	13360
5°	13426	13493	13315
10°	13551	13612	13431
15°	13740	13824	13624
20°	13974	14060	13840
25°	14251	14357	14088
30°	14708	14880	14494
35°	15406	15705	15135
40°	16532	17093	16174
45°	17940	18968	17553
50°	18952	20842	19149
55°	18747	21215	19704
60°	17878	20499	18827
65°	16578	19048	17313
70°	14703	16587	15156
75°	12334	13535	12476
80°	10065	10745	9853
85°	7219	7653	7057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	2.5
10°-20°	346.2	7.3
20°-30°	551.3	11.7
30°-40°	737.0	15.6
40°-50°	923.1	19.5
50°-60°	947.8	20.1
60°-70°	692.6	14.7
70°-80°	336.2	7.1
80°-90°	73.6	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°	1015.0	21.5
0°-40°	1752.0	37.1
0°-60°	3622.9	76.7
0°-90°	4725.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4725.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1235	1231	1241	1226	1225	118
15°	1226	1223	1233	1219	1215	347
25°	1193	1191	1202	1186	1179	552
35°	1165	1172	1188	1163	1145	734
45°	1172	1202	1239	1189	1146	900
55°	993	1047	1124	1093	1044	882
65°	647	689	743	715	676	639
75°	295	310	324	310	298	319
85°	58	60	62	59	57	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.8	1233.8	1233.8	1233.8	1233.8
2.5°	1235.8	1231.7	1242.0	1226.9	1226.3
5°	1235.1	1231.0	1241.3	1226.3	1224.9
7.5°	1234.5	1231.0	1240.6	1225.6	1224.2
10°	1232.4	1228.3	1237.9	1223.5	1221.5
12.5°	1229.0	1225.6	1235.8	1220.8	1218.7
15°	1225.6	1222.8	1233.1	1218.7	1215.3
17.5°	1220.1	1217.4	1228.3	1213.3	1209.8
20°	1212.6	1209.8	1220.1	1205.7	1201.0
22.5°	1202.3	1199.6	1210.5	1195.5	1189.3
25°	1192.7	1191.4	1201.6	1185.9	1179.1
27.5°	1183.9	1183.9	1194.8	1177.7	1168.8
30°	1176.3	1177.7	1190.0	1170.9	1159.2
32.5°	1168.8	1172.9	1186.6	1164.7	1151.0
35°	1165.4	1171.5	1188.0	1162.7	1144.9
37.5°	1166.1	1177.0	1196.2	1165.4	1142.8
40°	1169.5	1185.9	1209.2	1172.2	1144.2
42.5°	1172.2	1194.8	1223.5	1180.4	1144.9
45°	1171.5	1202.3	1238.6	1189.3	1146.2
47.5°	1159.2	1198.9	1246.8	1196.2	1146.9
50°	1125.0	1172.9	1237.2	1190.7	1136.7
52.5°	1066.2	1119.6	1194.1	1156.5	1103.2
55°	993.0	1047.1	1123.7	1092.9	1043.7
57.5°	911.0	965.7	1039.5	1009.5	960.9
60°	825.5	876.8	946.5	916.4	869.3
62.5°	737.3	784.4	848.1	819.3	774.9
65°	647.0	688.7	743.4	715.4	675.7
67.5°	555.3	590.2	634.0	609.4	575.9
70°	464.4	491.7	523.9	504.0	478.7
72.5°	375.5	400.8	419.9	402.8	385.0
75°	294.8	310.5	323.5	310.5	298.2
77.5°	225.7	234.6	241.4	231.2	221.6
80°	161.4	169.6	172.3	164.8	158.0
82.5°	105.3	110.8	112.8	107.4	103.3
85°	58.1	60.2	61.6	58.8	56.8
87.5°	18.5	19.1	20.5	18.5	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)