

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: P127939

Luminaire Tested: **LSM45W8030D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127939
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: LSM45W8030D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 3000K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4442.4 lumens
Efficiency: N/A
Efficacy: 99.4 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

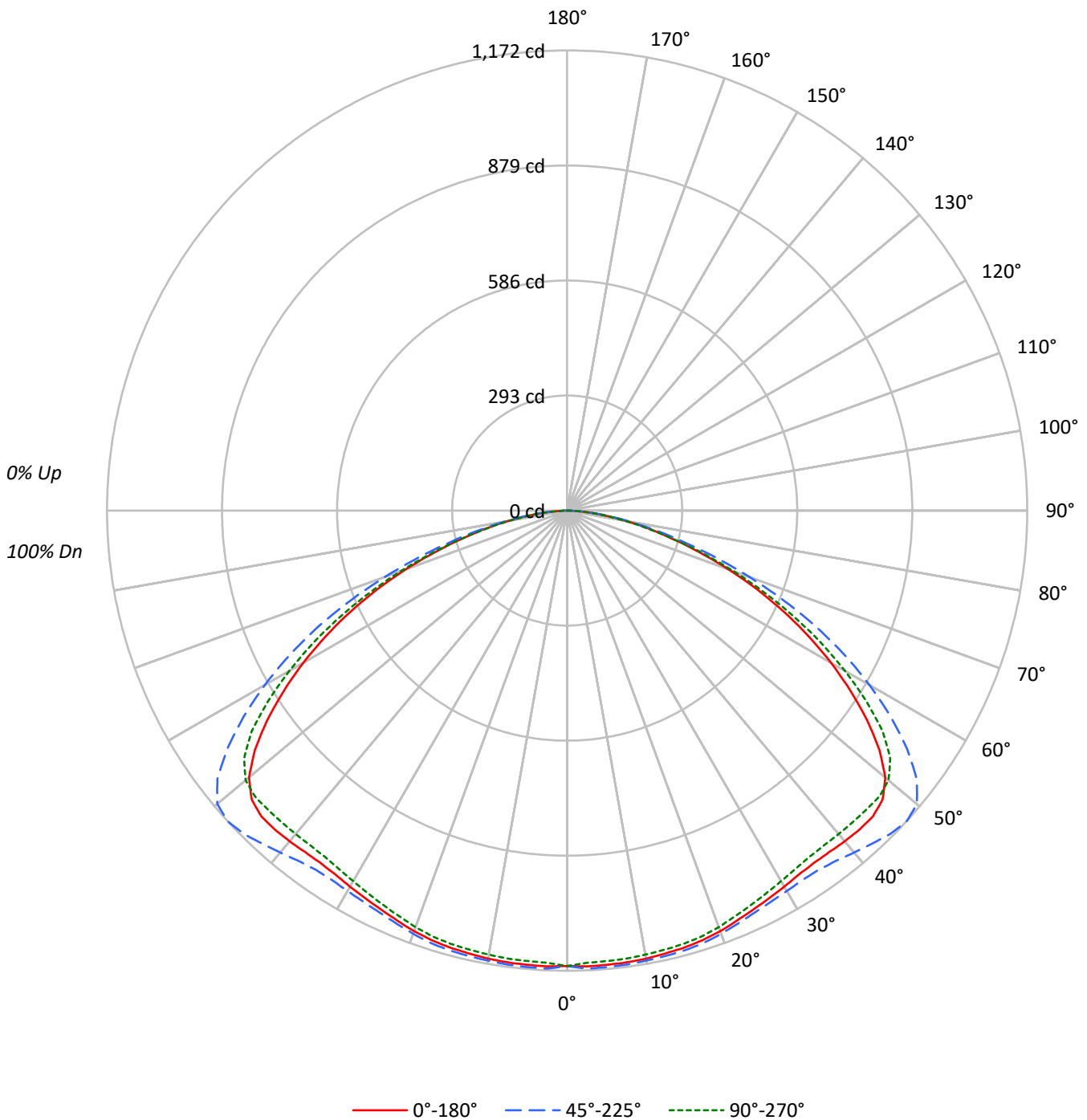
Input Watts (W): 44.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12560	12560	12560
5°	12622	12685	12518
10°	12740	12797	12626
15°	12917	12997	12809
20°	13137	13219	13010
25°	13397	13498	13244
30°	13828	13989	13627
35°	14483	14763	14228
40°	15542	16070	15206
45°	16867	17832	16502
50°	17818	19594	18002
55°	17626	19944	18524
60°	16808	19273	17698
65°	15584	17908	16278
70°	13823	15593	14251
75°	11594	12723	11727
80°	9460	10102	9260
85°	6796	7194	6635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	2.5
10°-20°	325.5	7.3
20°-30°	518.3	11.7
30°-40°	692.9	15.6
40°-50°	867.8	19.5
50°-60°	891.0	20.1
60°-70°	651.2	14.7
70°-80°	316.1	7.1
80°-90°	69.2	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°	954.3	21.5
0°-40°	1647.1	37.1
0°-60°	3406.0	76.7
0°-90°	4442.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4442.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1161	1157	1167	1153	1152	111
15°	1152	1150	1159	1146	1143	326
25°	1121	1120	1130	1115	1108	519
35°	1096	1101	1117	1093	1076	690
45°	1101	1130	1164	1118	1078	846
55°	934	984	1056	1028	981	830
65°	608	648	699	672	635	601
75°	277	292	304	292	280	299
85°	55	57	58	55	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.9	1159.9	1159.9	1159.9	1159.9
2.5°	1161.8	1158.0	1167.6	1153.5	1152.8
5°	1161.2	1157.3	1167.0	1152.8	1151.6
7.5°	1160.6	1157.3	1166.3	1152.2	1150.9
10°	1158.6	1154.8	1163.8	1150.3	1148.3
12.5°	1155.4	1152.2	1161.8	1147.7	1145.8
15°	1152.2	1149.6	1159.3	1145.8	1142.6
17.5°	1147.1	1144.5	1154.8	1140.6	1137.4
20°	1140.0	1137.4	1147.1	1133.5	1129.0
22.5°	1130.3	1127.8	1138.0	1123.9	1118.1
25°	1121.3	1120.0	1129.7	1114.9	1108.5
27.5°	1113.0	1113.0	1123.3	1107.2	1098.8
30°	1105.9	1107.2	1118.8	1100.8	1089.8
32.5°	1098.8	1102.7	1115.5	1095.0	1082.1
35°	1095.6	1101.4	1116.8	1093.0	1076.3
37.5°	1096.3	1106.5	1124.5	1095.6	1074.4
40°	1099.5	1114.9	1136.8	1102.0	1075.7
42.5°	1102.0	1123.3	1150.3	1109.8	1076.3
45°	1101.4	1130.3	1164.4	1118.1	1077.6
47.5°	1089.8	1127.1	1172.1	1124.5	1078.3
50°	1057.7	1102.7	1163.1	1119.4	1068.6
52.5°	1002.4	1052.5	1122.6	1087.3	1037.1
55°	933.6	984.4	1056.4	1027.5	981.2
57.5°	856.4	907.9	977.3	949.0	903.4
60°	776.1	824.3	889.9	861.6	817.2
62.5°	693.1	737.5	797.3	770.3	728.5
65°	608.2	647.5	698.9	672.5	635.3
67.5°	522.1	554.9	596.0	572.9	541.4
70°	436.6	462.3	492.5	473.9	450.1
72.5°	353.0	376.8	394.8	378.7	362.0
75°	277.1	291.9	304.1	291.9	280.3
77.5°	212.2	220.5	227.0	217.3	208.3
80°	151.7	159.5	162.0	155.0	148.5
82.5°	99.0	104.2	106.1	100.9	97.1
85°	54.7	56.6	57.9	55.3	53.4
87.5°	17.4	18.0	19.3	17.4	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)