

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: P127942

Luminaire Tested: **LSM45W9027D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127942
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: LSM45W9027D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 90 CRI, 2700K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3525.6 lumens
Efficiency: N/A
Efficacy: 78.9 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

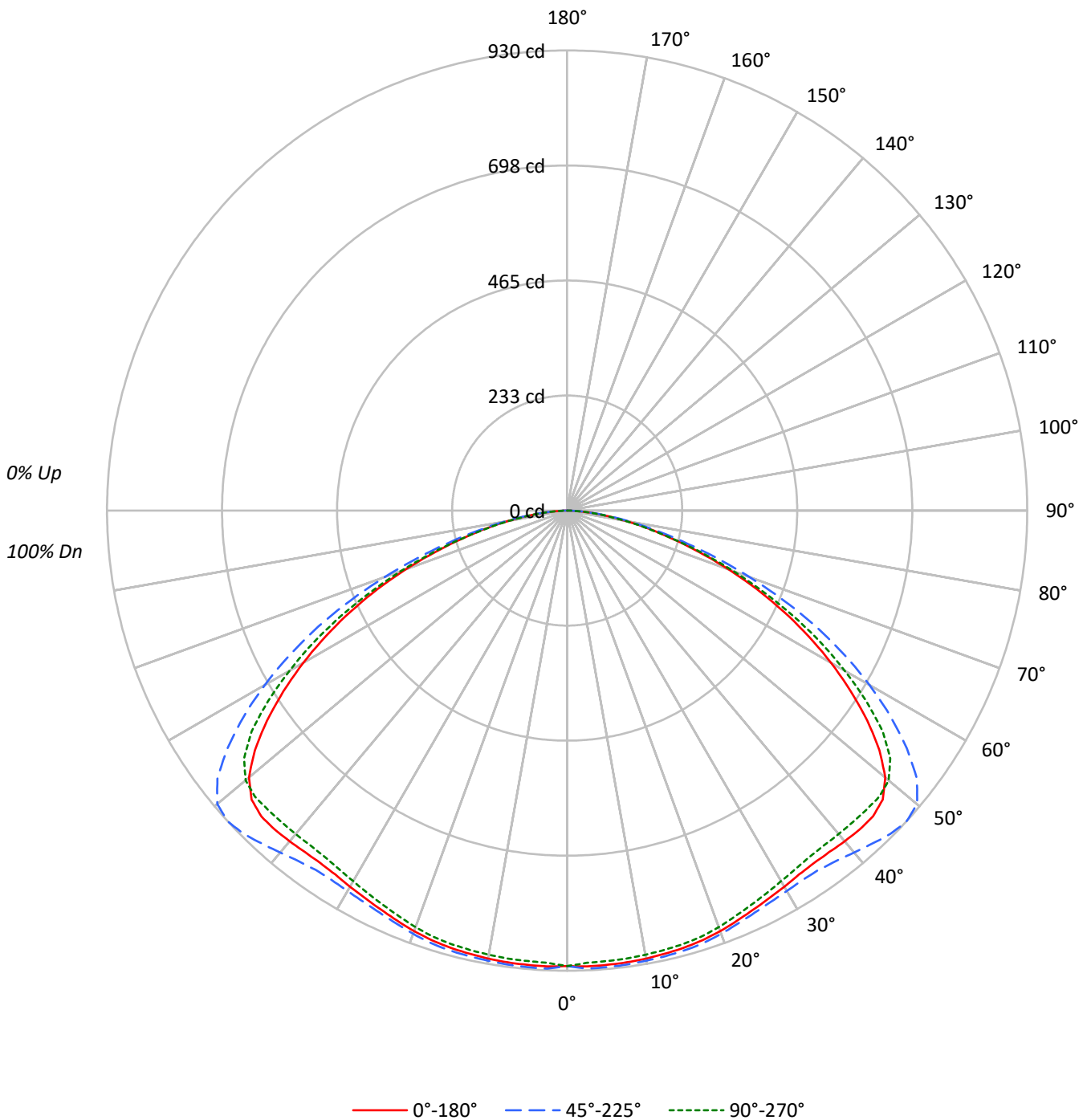
Input Watts (W): 44.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9968	9968	9968
5°	10018	10068	9934
10°	10111	10156	10022
15°	10251	10314	10166
20°	10425	10490	10325
25°	10633	10713	10511
30°	10975	11102	10815
35°	11494	11716	11292
40°	12335	12753	12068
45°	13386	14152	13097
50°	14141	15551	14287
55°	13988	15828	14701
60°	13339	15294	14047
65°	12368	14213	12919
70°	10971	12376	11309
75°	9200	10100	9309
80°	7508	8019	7352
85°	5392	5703	5268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	2.5
10°-20°	258.3	7.3
20°-30°	411.3	11.7
30°-40°	549.9	15.6
40°-50°	688.7	19.5
50°-60°	707.1	20.1
60°-70°	516.8	14.7
70°-80°	250.9	7.1
80°-90°	54.9	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°	757.3	21.5
0°-40°	1307.2	37.1
0°-60°	2703.1	76.7
0°-90°	3525.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	922	918	926	915	914	88
15°	914	912	920	909	907	259
25°	890	889	897	885	880	412
35°	870	874	886	868	854	548
45°	874	897	924	887	855	671
55°	741	781	838	815	779	658
65°	483	514	555	534	504	477
75°	220	232	241	232	222	238
85°	43	45	46	44	42	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.5	920.5	920.5	920.5	920.5
2.5°	922.1	919.0	926.7	915.4	914.9
5°	921.6	918.5	926.2	914.9	913.9
7.5°	921.0	918.5	925.6	914.4	913.4
10°	919.5	916.5	923.6	912.9	911.4
12.5°	917.0	914.4	922.1	910.8	909.3
15°	914.4	912.4	920.0	909.3	906.8
17.5°	910.3	908.3	916.5	905.2	902.7
20°	904.7	902.7	910.3	899.6	896.0
22.5°	897.1	895.0	903.2	892.0	887.4
25°	889.9	888.9	896.6	884.8	879.7
27.5°	883.3	883.3	891.5	878.7	872.1
30°	877.7	878.7	887.9	873.6	864.9
32.5°	872.1	875.1	885.3	869.0	858.8
35°	869.5	874.1	886.3	867.5	854.2
37.5°	870.0	878.2	892.5	869.5	852.7
40°	872.6	884.8	902.2	874.6	853.7
42.5°	874.6	891.5	912.9	880.7	854.2
45°	874.1	897.1	924.1	887.4	855.2
47.5°	864.9	894.5	930.2	892.5	855.7
50°	839.4	875.1	923.1	888.4	848.1
52.5°	795.5	835.3	890.9	862.9	823.1
55°	740.9	781.2	838.4	815.4	778.7
57.5°	679.7	720.5	775.6	753.2	716.9
60°	615.9	654.2	706.2	683.8	648.6
62.5°	550.1	585.3	632.7	611.3	578.1
65°	482.7	513.8	554.7	533.7	504.2
67.5°	414.3	440.4	473.0	454.7	429.7
70°	346.5	366.9	390.9	376.1	357.2
72.5°	280.1	299.0	313.3	300.6	287.3
75°	219.9	231.7	241.4	231.7	222.5
77.5°	168.4	175.0	180.1	172.5	165.3
80°	120.4	126.5	128.6	123.0	117.9
82.5°	78.6	82.7	84.2	80.1	77.1
85°	43.4	44.9	45.9	43.9	42.4
87.5°	13.8	14.3	15.3	13.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)