

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: P127944

Luminaire Tested: **LSM45W9035D010TEP**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P127944  
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: LSM45W9035D010TEP  
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: 3779.5 lumens  
Efficiency: N/A  
Efficacy: 84.6 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

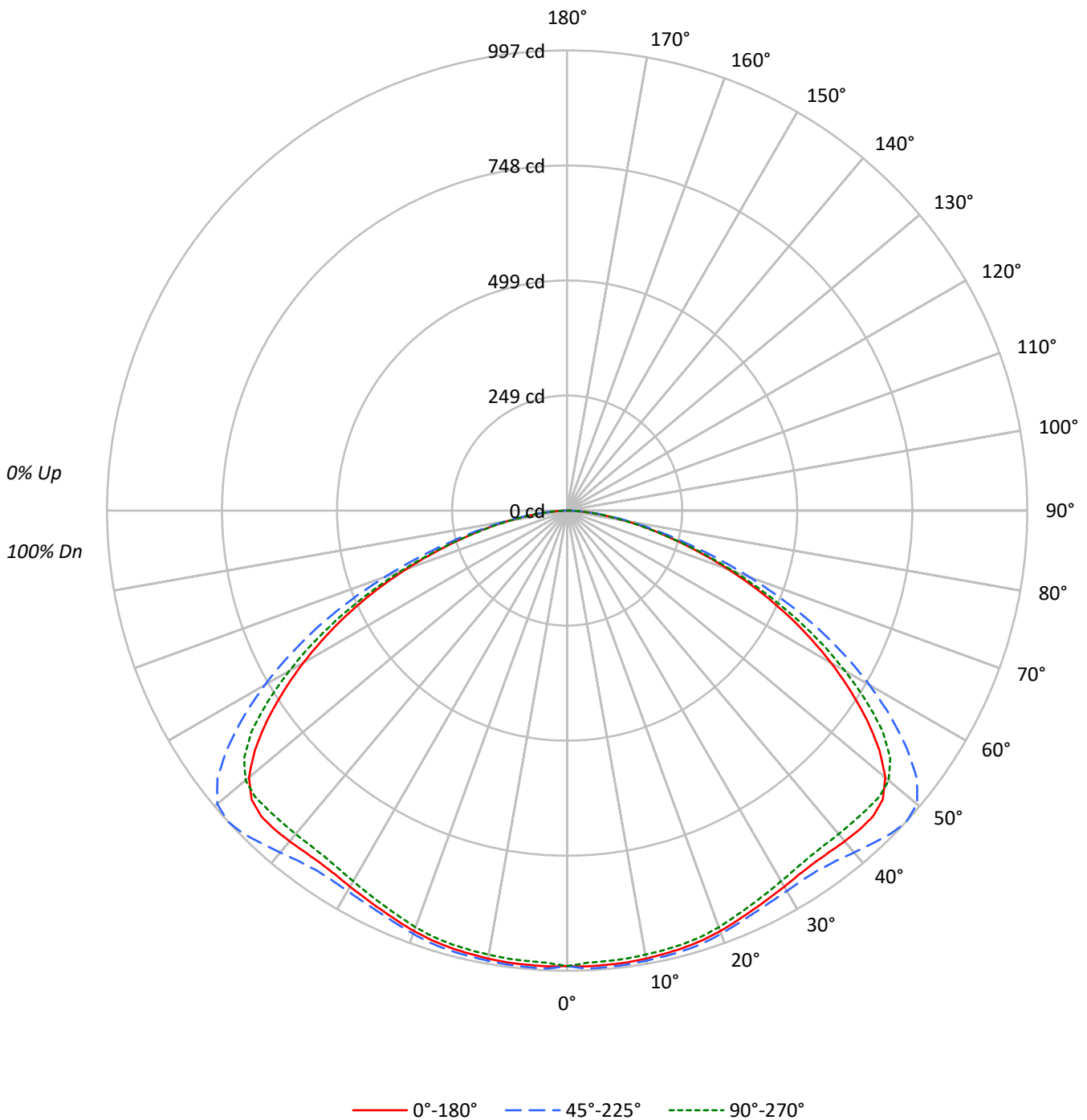
Input Watts (W): 44.68  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10686	10686	10686
5°	10739	10793	10649
10°	10838	10887	10743
15°	10990	11057	10898
20°	11177	11246	11070
25°	11399	11483	11268
30°	11765	11901	11594
35°	12322	12561	12105
40°	13223	13671	12937
45°	14351	15172	14040
50°	15160	16671	15317
55°	14996	16969	15760
60°	14300	16397	15058
65°	13260	15235	13849
70°	11759	13266	12123
75°	9866	10824	9979
80°	8051	8599	7882
85°	5777	6113	5641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	2.5
10°-20°	276.9	7.3
20°-30°	441.0	11.7
30°-40°	589.5	15.6
40°-50°	738.3	19.5
50°-60°	758.1	20.1
60°-70°	554.0	14.7
70°-80°	268.9	7.1
80°-90°	58.9	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°	811.9	21.5
0°-40°	1401.4	37.1
0°-60°	2897.8	76.7
0°-90°	3779.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	988	985	993	981	980	94
15°	980	978	986	975	972	277
25°	954	953	961	948	943	441
35°	932	937	950	930	916	587
45°	937	962	991	951	917	720
55°	794	838	899	874	835	706
65°	518	551	595	572	540	511
75°	236	248	259	248	238	255
85°	46	48	49	47	45	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	986.8	986.8	986.8	986.8	986.8
2.5°	988.5	985.2	993.4	981.4	980.8
5°	987.9	984.6	992.9	980.8	979.7
7.5°	987.4	984.6	992.3	980.3	979.2
10°	985.7	982.5	990.1	978.6	977.0
12.5°	983.0	980.3	988.5	976.4	974.8
15°	980.3	978.1	986.3	974.8	972.1
17.5°	975.9	973.7	982.5	970.4	967.7
20°	969.9	967.7	975.9	964.4	960.6
22.5°	961.7	959.5	968.2	956.2	951.3
25°	954.0	952.9	961.1	948.5	943.1
27.5°	946.9	946.9	955.7	942.0	934.9
30°	940.9	942.0	951.8	936.5	927.2
32.5°	934.9	938.1	949.1	931.6	920.6
35°	932.1	937.1	950.2	929.9	915.7
37.5°	932.7	941.4	956.7	932.1	914.1
40°	935.4	948.5	967.1	937.6	915.2
42.5°	937.6	955.7	978.6	944.2	915.7
45°	937.1	961.7	990.7	951.3	916.8
47.5°	927.2	958.9	997.2	956.7	917.4
50°	899.9	938.1	989.6	952.4	909.2
52.5°	852.8	895.5	955.1	925.0	882.4
55°	794.3	837.5	898.8	874.1	834.8
57.5°	728.6	772.4	831.5	807.4	768.6
60°	660.3	701.3	757.1	733.0	695.3
62.5°	589.7	627.4	678.3	655.3	619.8
65°	517.5	550.9	594.6	572.2	540.5
67.5°	444.2	472.1	507.1	487.4	460.6
70°	371.4	393.3	419.0	403.2	382.9
72.5°	300.3	320.6	335.9	322.2	308.0
75°	235.8	248.3	258.7	248.3	238.5
77.5°	180.5	187.6	193.1	184.9	177.2
80°	129.1	135.7	137.9	131.8	126.4
82.5°	84.2	88.6	90.3	85.9	82.6
85°	46.5	48.1	49.2	47.0	45.4
87.5°	14.8	15.3	16.4	14.8	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)