

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: P840069

Luminaire Tested: **LDS4C45D010 EU4459035 4LBPSMMS**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P840069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C45D010 EU4459035 4LBPSMMS
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

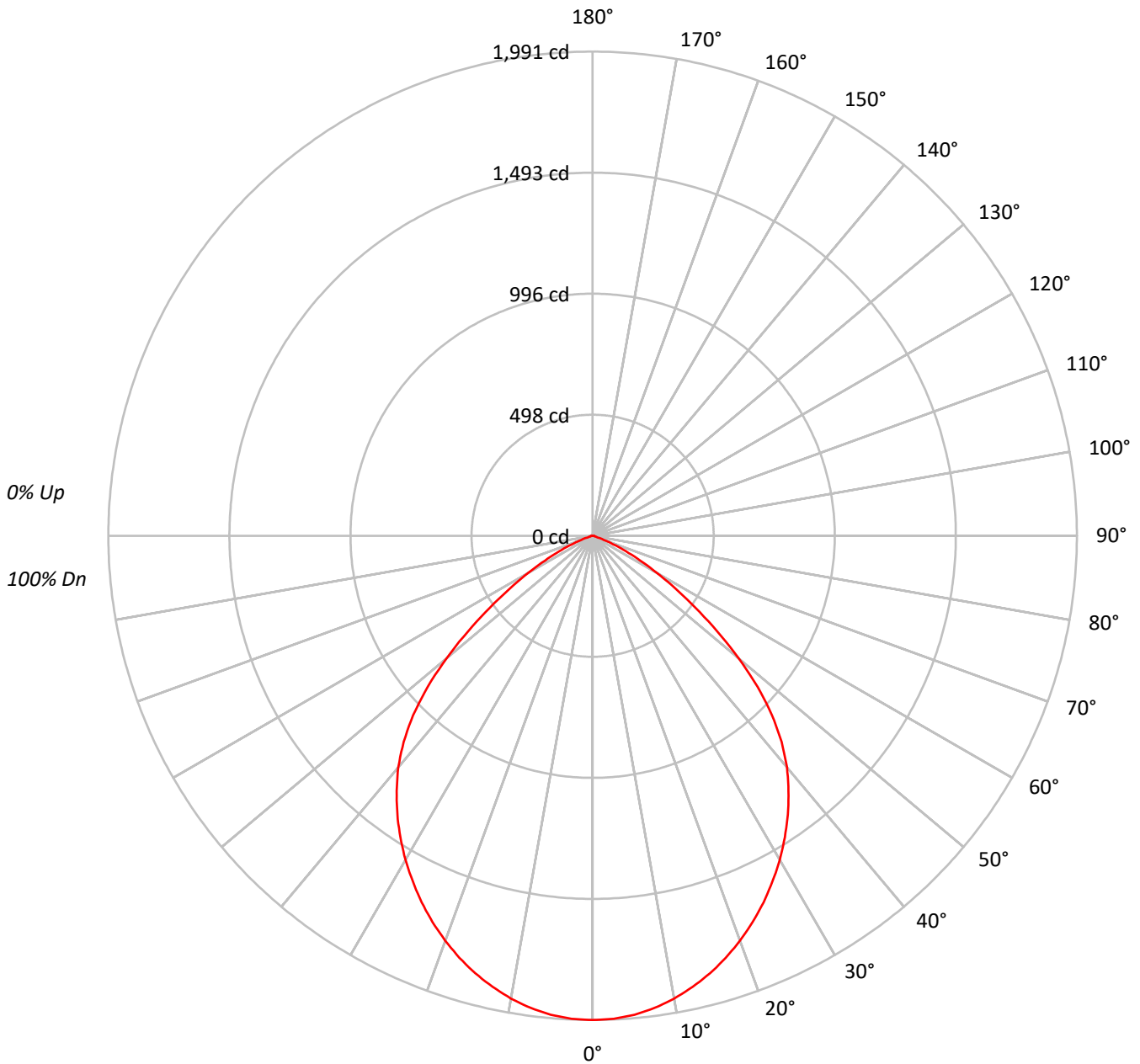
Lumens per Lamp: N/A
Luminaire Lumens: 3791.9 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{in}): 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																	
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90																											
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																											
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																											
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62																											
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55																											
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49																											
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																											
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																											
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																											
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	244614
5°	243784
10°	241102
15°	236950
20°	231641
25°	225453
30°	218349
35°	209937
40°	199345
45°	181247
50°	149633
55°	110179
60°	74793
65°	43779
70°	17313
75°	3892
80°	5094
85°	8598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	4.9
10°-20°	524.6	13.8
20°-30°	765.2	20.2
30°-40°	873.4	23.0
40°-50°	794.0	20.9
50°-60°	468.3	12.3
60°-70°	157.0	4.1
70°-80°	16.4	0.4
80°-90°	5.7	0.2
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°	1477.1	39.0
0°-40°	2350.5	62.0
0°-60°	3612.8	95.3
0°-90°	3791.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3791.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1991	
5°	1977	187
15°	1863	525
25°	1663	765
35°	1400	873
45°	1043	794
55°	514	468
65°	151	157
75°	8	16
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1991.1
2.5°	1988.0
5°	1976.8
7.5°	1958.3
10°	1932.7
12.5°	1899.9
15°	1863.0
17.5°	1820.0
20°	1771.8
22.5°	1719.5
25°	1663.2
27.5°	1601.7
30°	1539.2
32.5°	1470.5
35°	1399.8
37.5°	1323.0
40°	1243.0
42.5°	1149.8
45°	1043.2
47.5°	920.2
50°	782.9
52.5°	645.6
55°	514.4
57.5°	402.7
60°	304.4
62.5°	220.3
65°	150.6
67.5°	92.2
70°	48.2
72.5°	18.4
75°	8.2
77.5°	8.2
80°	7.2
82.5°	6.1
85°	6.1
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)