

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: P840070

Luminaire Tested: **LDS4C45D010 EU4459035 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840070
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 4LBSB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

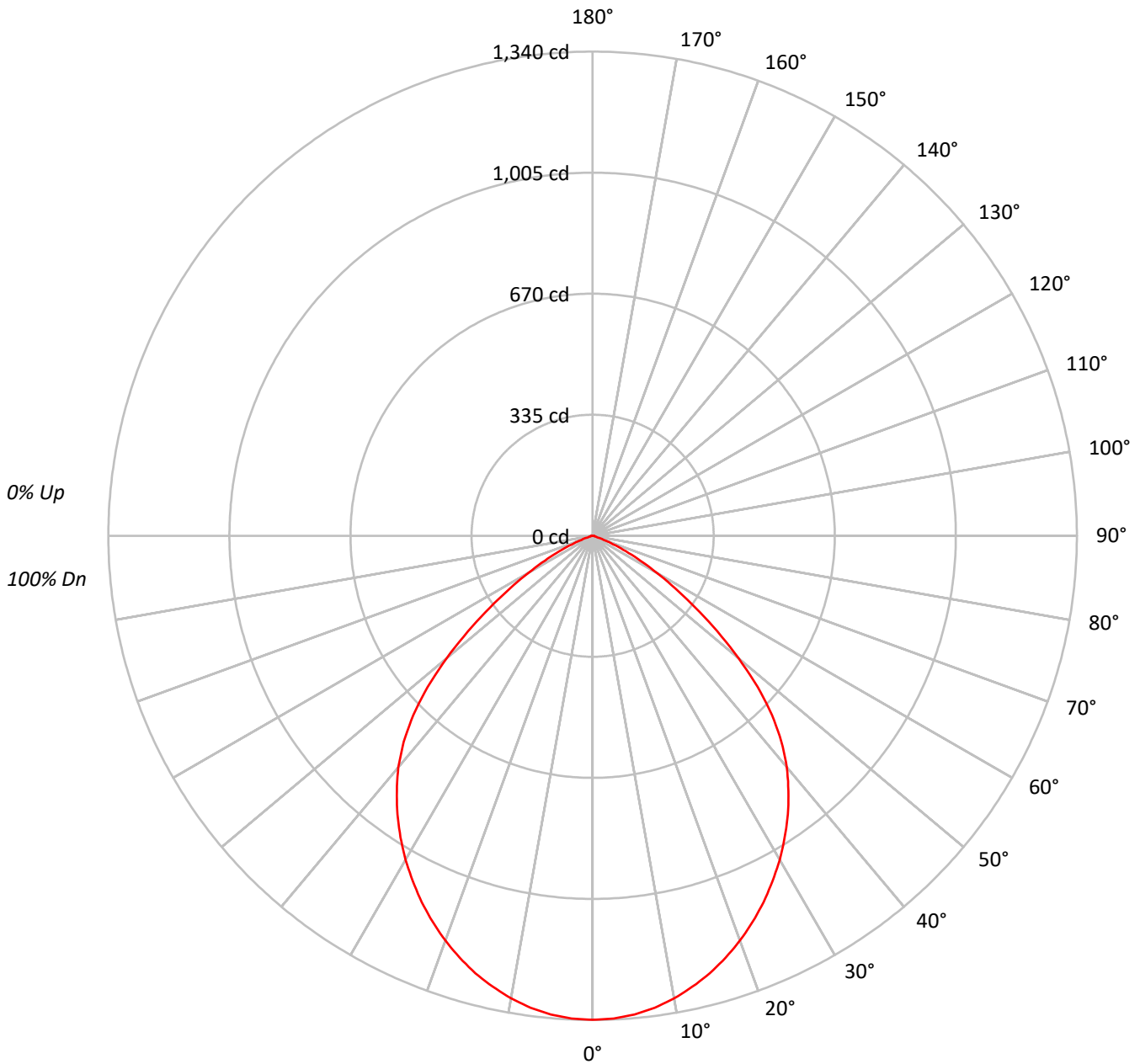
Lumens per Lamp: N/A
Luminaire Lumens: 2550.9 lumens
Efficiency: N/A
Efficacy: 51.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	164562
5°	163995
10°	162198
15°	159404
20°	155840
25°	151671
30°	146895
35°	141233
40°	134105
45°	121931
50°	100666
55°	74131
60°	50296
65°	29448
70°	11638
75°	2611
80°	3396
85°	5779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	4.9
10°-20°	352.9	13.8
20°-30°	514.8	20.2
30°-40°	587.6	23.0
40°-50°	534.2	20.9
50°-60°	315.0	12.3
60°-70°	105.6	4.1
70°-80°	11.0	0.4
80°-90°	3.8	0.1
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°	993.7	39.0
0°-40°	1581.3	62.0
0°-60°	2430.5	95.3
0°-90°	2550.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1340	
5°	1330	126
15°	1253	353
25°	1119	515
35°	942	588
45°	702	534
55°	346	315
65°	101	106
75°	6	11
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1339.5
2.5°	1337.4
5°	1329.8
7.5°	1317.4
10°	1300.2
12.5°	1278.1
15°	1253.3
17.5°	1224.4
20°	1192.0
22.5°	1156.8
25°	1118.9
27.5°	1077.5
30°	1035.5
32.5°	989.3
35°	941.7
37.5°	890.0
40°	836.2
42.5°	773.5
45°	701.8
47.5°	619.1
50°	526.7
52.5°	434.3
55°	346.1
57.5°	270.9
60°	204.7
62.5°	148.2
65°	101.3
67.5°	62.0
70°	32.4
72.5°	12.4
75°	5.5
77.5°	5.5
80°	4.8
82.5°	4.1
85°	4.1
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)