

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: P840378

Luminaire Tested: **LDS4C45D010 EU4459027 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840378
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 EU4459027 4LBSSQMB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

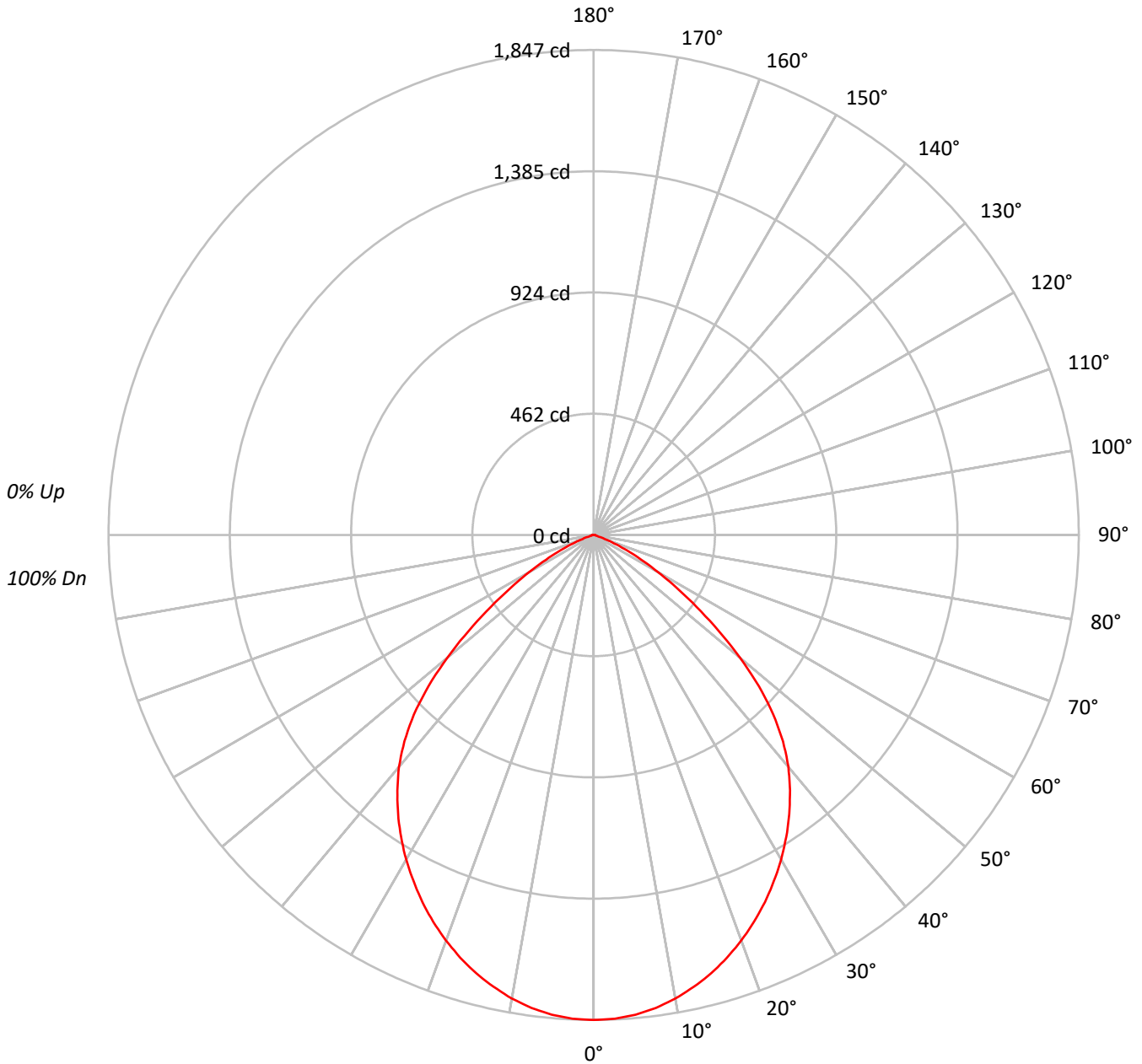
Lumens per Lamp: N/A
Luminaire Lumens: 3518.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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				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	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	65	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°	178234
5°	177627
10°	175673
15°	172654
20°	168788
25°	164274
30°	159102
35°	152975
40°	145254
45°	132062
50°	109025
55°	80293
60°	54497
65°	31918
70°	12611
75°	2833
80°	3723
85°	6310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	4.9
10°-20°	486.7	13.8
20°-30°	709.9	20.2
30°-40°	810.3	23.0
40°-50°	736.6	20.9
50°-60°	434.5	12.3
60°-70°	145.7	4.1
70°-80°	15.2	0.4
80°-90°	5.3	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°	1370.3	39.0
0°-40°	2180.7	62.0
0°-60°	3351.8	95.3
0°-90°	3518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3518.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1847	
5°	1834	174
15°	1728	487
25°	1543	710
35°	1299	810
45°	968	737
55°	477	434
65°	140	146
75°	8	15
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1847.2
2.5°	1844.4
5°	1833.9
7.5°	1816.8
10°	1793.0
12.5°	1762.6
15°	1728.4
17.5°	1688.5
20°	1643.8
22.5°	1595.3
25°	1543.0
27.5°	1486.0
30°	1428.0
32.5°	1364.3
35°	1298.7
37.5°	1227.4
40°	1153.2
42.5°	1066.7
45°	967.8
47.5°	853.7
50°	726.3
52.5°	598.9
55°	477.3
57.5°	373.6
60°	282.4
62.5°	204.4
65°	139.8
67.5°	85.6
70°	44.7
72.5°	17.1
75°	7.6
77.5°	7.6
80°	6.7
82.5°	5.7
85°	5.7
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)