

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: P840386

Luminaire Tested: **LDS4C45D010 EU4459050 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: P840386
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 EU4459050 4LBPSSQMB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

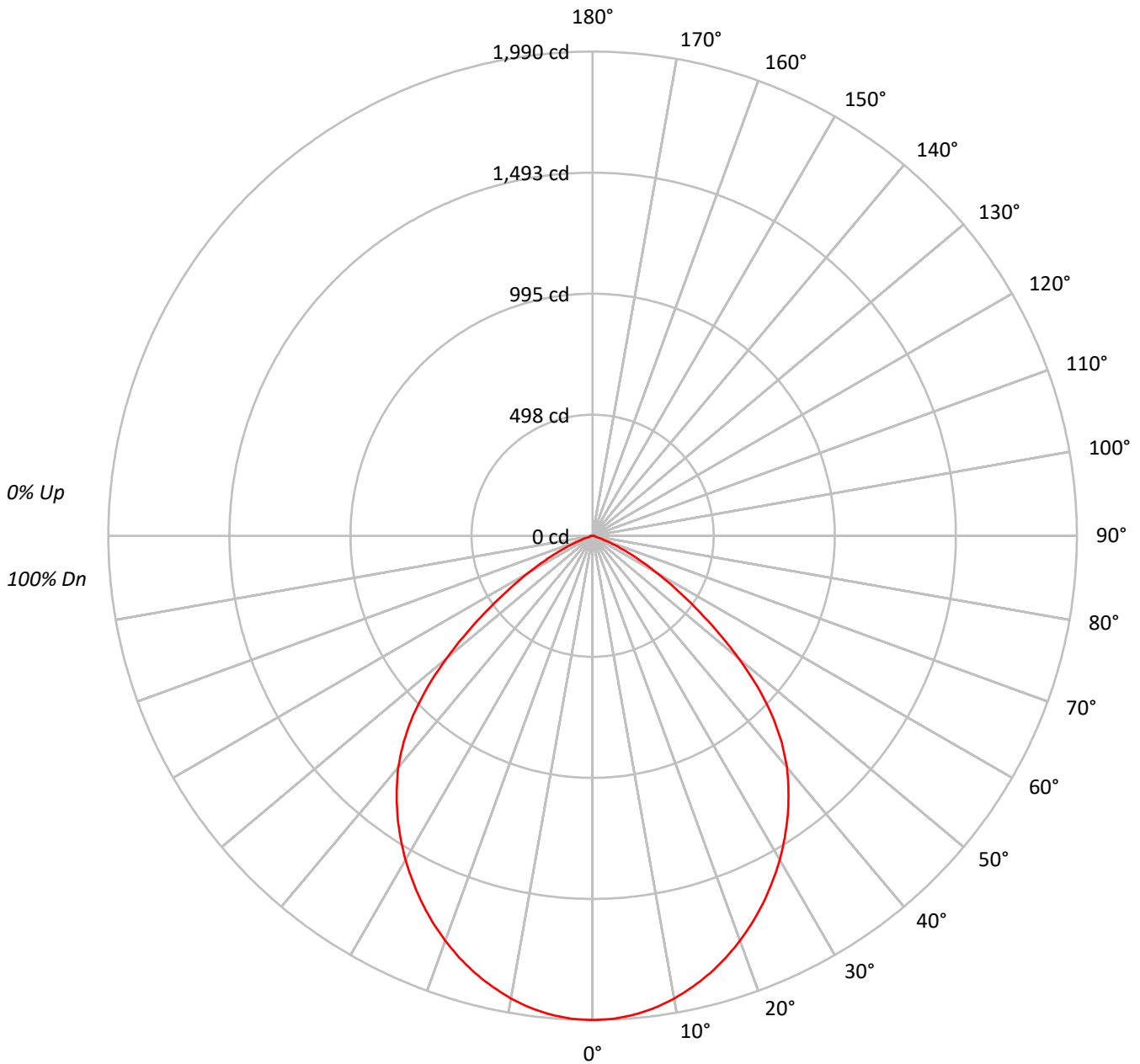
Lumens per Lamp: N/A
Luminaire Lumens: 3790.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	192023
5°	191361
10°	189263
15°	186000
20°	181838
25°	176975
30°	171402
35°	164802
40°	156489
45°	142283
50°	117461
55°	86500
60°	58704
65°	34384
70°	13570
75°	3057
80°	4001
85°	6753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	4.9
10°-20°	524.3	13.8
20°-30°	764.8	20.2
30°-40°	873.0	23.0
40°-50°	793.6	20.9
50°-60°	468.1	12.4
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°	1476.3	39.0
0°-40°	2349.3	62.0
0°-60°	3611.0	95.3
0°-90°	3790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3790.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1990	
5°	1976	187
15°	1862	524
25°	1662	765
35°	1399	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°	1990.1
2.5°	1987.0
5°	1975.7
7.5°	1957.3
10°	1931.7
12.5°	1898.9
15°	1862.0
17.5°	1819.0
20°	1770.9
22.5°	1718.6
25°	1662.3
27.5°	1600.9
30°	1538.4
32.5°	1469.8
35°	1399.1
37.5°	1322.3
40°	1242.4
42.5°	1149.2
45°	1042.7
47.5°	919.7
50°	782.5
52.5°	645.3
55°	514.2
57.5°	402.5
60°	304.2
62.5°	220.2
65°	150.6
67.5°	92.2
70°	48.1
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)