

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: P840387

Luminaire Tested: **LDS4C45D010 EU4459050 4LBPSSQMMS**

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: P840387
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 4LBPSSQMMS
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

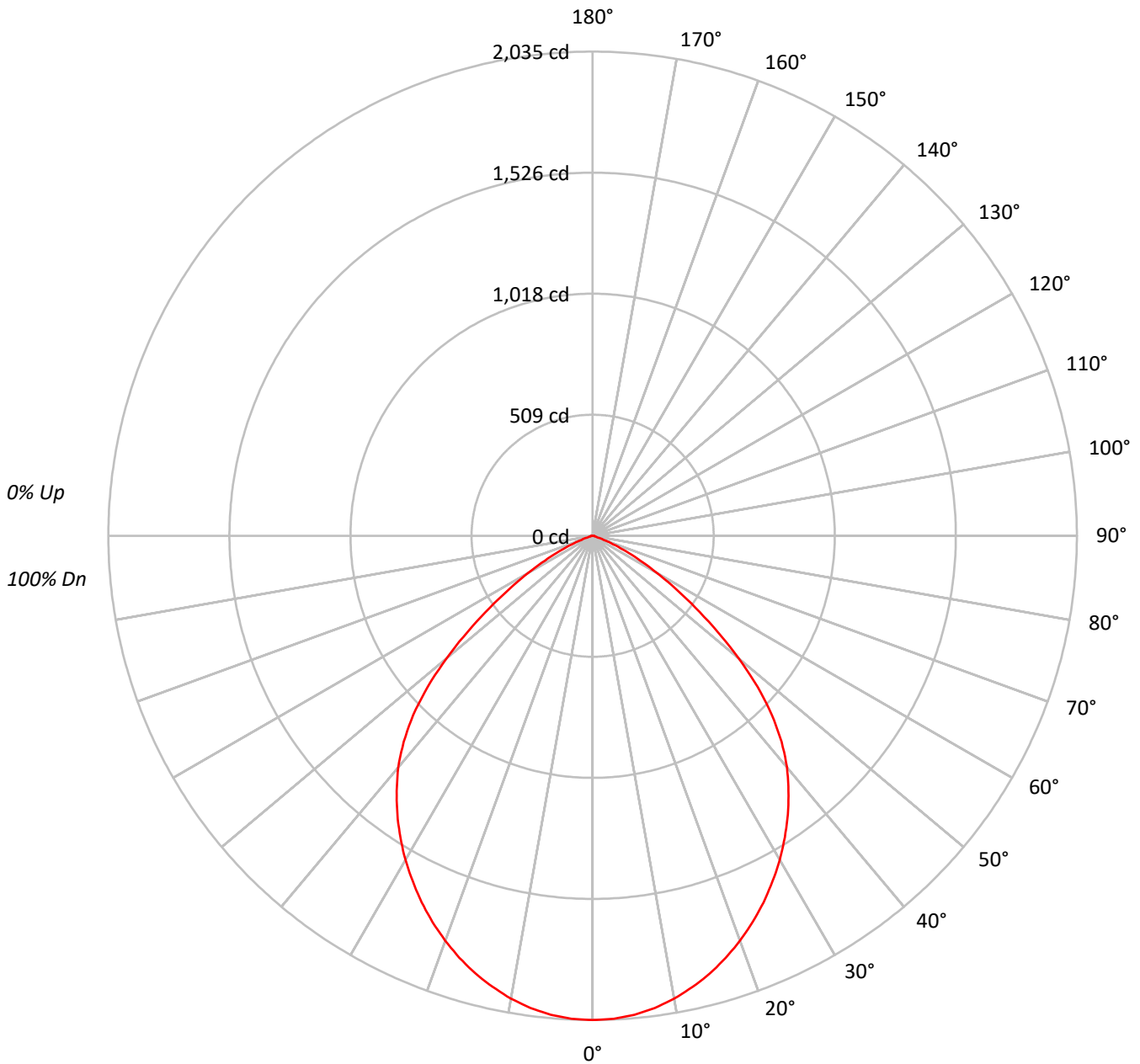
Lumens per Lamp: N/A
Luminaire Lumens: 3876.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	196374
5°	195710
10°	193554
15°	190226
20°	185966
25°	180988
30°	175290
35°	168536
40°	160041
45°	145503
50°	120133
55°	88452
60°	60035
65°	35160
70°	13880
75°	3132
80°	4056
85°	6975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	4.9
10°-20°	536.2	13.8
20°-30°	782.1	20.2
30°-40°	892.8	23.0
40°-50°	811.6	20.9
50°-60°	478.7	12.4
60°-70°	160.5	4.1
70°-80°	16.8	0.4
80°-90°	5.8	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°	1509.8	39.0
0°-40°	2402.6	62.0
0°-60°	3692.9	95.3
0°-90°	3876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2035	
5°	2021	191
15°	1904	536
25°	1700	782
35°	1431	893
45°	1066	812
55°	526	479
65°	154	161
75°	8	17
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2035.2
2.5°	2032.1
5°	2020.6
7.5°	2001.7
10°	1975.5
12.5°	1942.0
15°	1904.3
17.5°	1860.3
20°	1811.1
22.5°	1757.6
25°	1700.0
27.5°	1637.2
30°	1573.3
32.5°	1503.1
35°	1430.8
37.5°	1352.3
40°	1270.6
42.5°	1175.3
45°	1066.3
47.5°	940.6
50°	800.3
52.5°	659.9
55°	525.8
57.5°	411.7
60°	311.1
62.5°	225.2
65°	154.0
67.5°	94.3
70°	49.2
72.5°	18.9
75°	8.4
77.5°	8.4
80°	7.3
82.5°	6.3
85°	6.3
87.5°	5.2
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)