

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: P840379

Luminaire Tested: **LDS4C45D010 EU4459027 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: P840379
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 4LBPSSQMMS
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

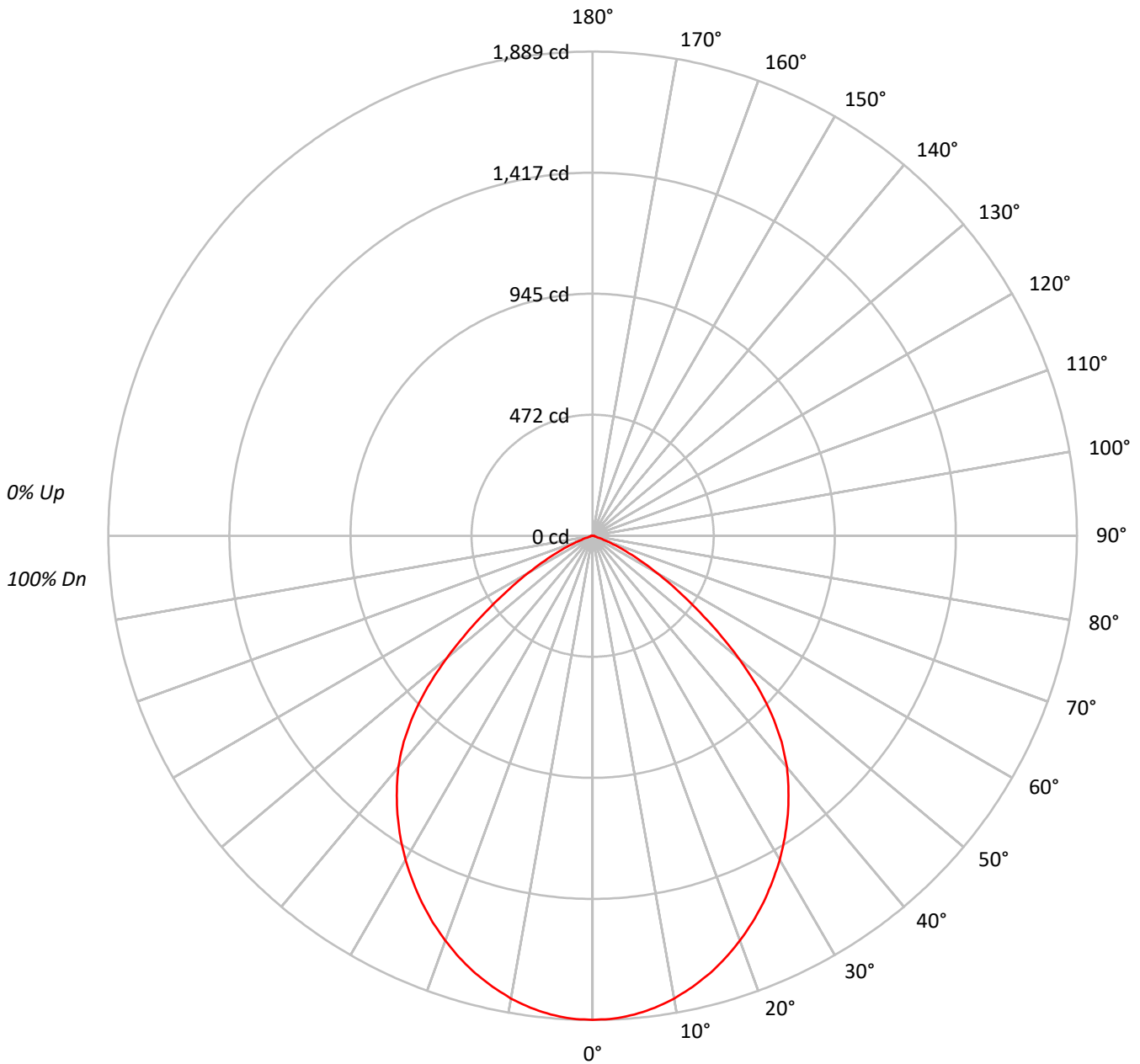
Lumens per Lamp: N/A
Luminaire Lumens: 3597.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	182239
5°	181617
10°	179622
15°	176530
20°	172577
25°	167968
30°	162667
35°	156403
40°	148516
45°	135037
50°	111487
55°	82093
60°	55713
65°	32626
70°	12893
75°	2908
80°	3778
85°	6421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	4.9
10°-20°	497.6	13.8
20°-30°	725.8	20.2
30°-40°	828.5	23.0
40°-50°	753.2	20.9
50°-60°	444.2	12.4
60°-70°	149.0	4.1
70°-80°	15.6	0.4
80°-90°	5.4	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°	1401.1	39.0
0°-40°	2229.6	62.0
0°-60°	3427.0	95.3
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1889	
5°	1875	178
15°	1767	498
25°	1578	726
35°	1328	828
45°	990	753
55°	488	444
65°	143	149
75°	8	16
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1888.7
2.5°	1885.8
5°	1875.1
7.5°	1857.6
10°	1833.3
12.5°	1802.2
15°	1767.2
17.5°	1726.4
20°	1680.7
22.5°	1631.1
25°	1577.7
27.5°	1519.3
30°	1460.0
32.5°	1394.9
35°	1327.8
37.5°	1254.9
40°	1179.1
42.5°	1090.7
45°	989.6
47.5°	872.9
50°	742.7
52.5°	612.4
55°	488.0
57.5°	382.0
60°	288.7
62.5°	209.0
65°	142.9
67.5°	87.5
70°	45.7
72.5°	17.5
75°	7.8
77.5°	7.8
80°	6.8
82.5°	5.8
85°	5.8
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)