

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: P840051

Luminaire Tested: **LDS4C45D010 EU4459027 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840051
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 4LBSGPH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

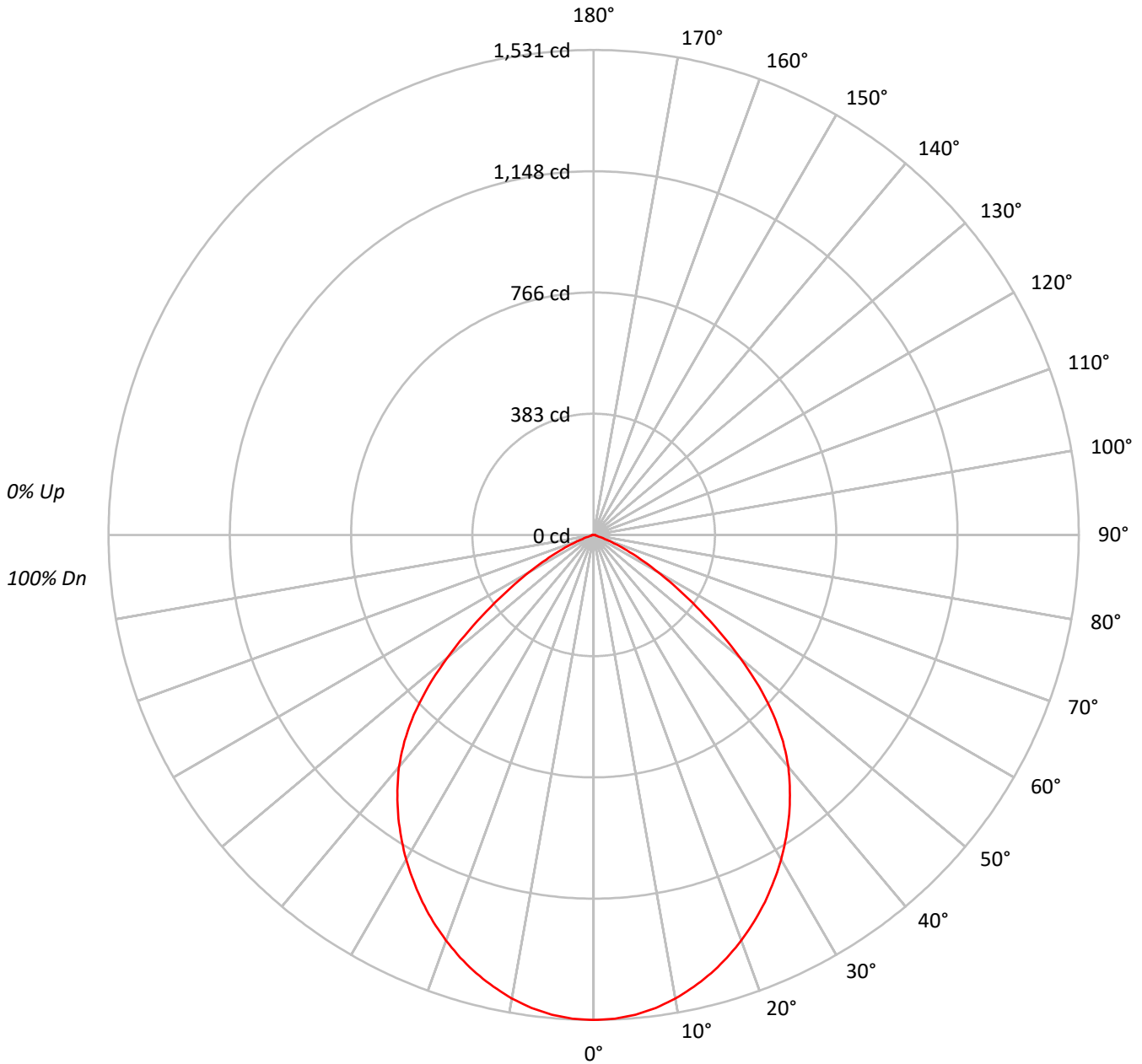
Lumens per Lamp: N/A
Luminaire Lumens: 2915.9 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	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
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	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
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	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
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	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
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188101
5°	187463
10°	185402
15°	182208
20°	178130
25°	173373
30°	167904
35°	161435
40°	153301
45°	139375
50°	115077
55°	84733
60°	57495
65°	33663
70°	13290
75°	2990
80°	3891
85°	6625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	4.9
10°-20°	403.4	13.8
20°-30°	588.4	20.2
30°-40°	671.6	23.0
40°-50°	610.6	20.9
50°-60°	360.1	12.4
60°-70°	120.7	4.1
70°-80°	12.6	0.4
80°-90°	4.4	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°	1135.8	39.0
0°-40°	1807.5	62.0
0°-60°	2778.2	95.3
0°-90°	2915.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1531	
5°	1520	144
15°	1433	403
25°	1279	588
35°	1076	672
45°	802	611
55°	396	360
65°	116	121
75°	6	13
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1531.1
2.5°	1528.8
5°	1520.1
7.5°	1505.9
10°	1486.2
12.5°	1461.0
15°	1432.6
17.5°	1399.5
20°	1362.5
22.5°	1322.3
25°	1279.0
27.5°	1231.7
30°	1183.6
32.5°	1130.8
35°	1076.4
37.5°	1017.3
40°	955.9
42.5°	884.2
45°	802.2
47.5°	707.6
50°	602.1
52.5°	496.5
55°	395.6
57.5°	309.7
60°	234.0
62.5°	169.4
65°	115.8
67.5°	70.9
70°	37.0
72.5°	14.2
75°	6.3
77.5°	6.3
80°	5.5
82.5°	4.7
85°	4.7
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)