

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: P840080

Luminaire Tested: **LDS4C45D010 EU4459040 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840080
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 EU4459040 4LBSB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

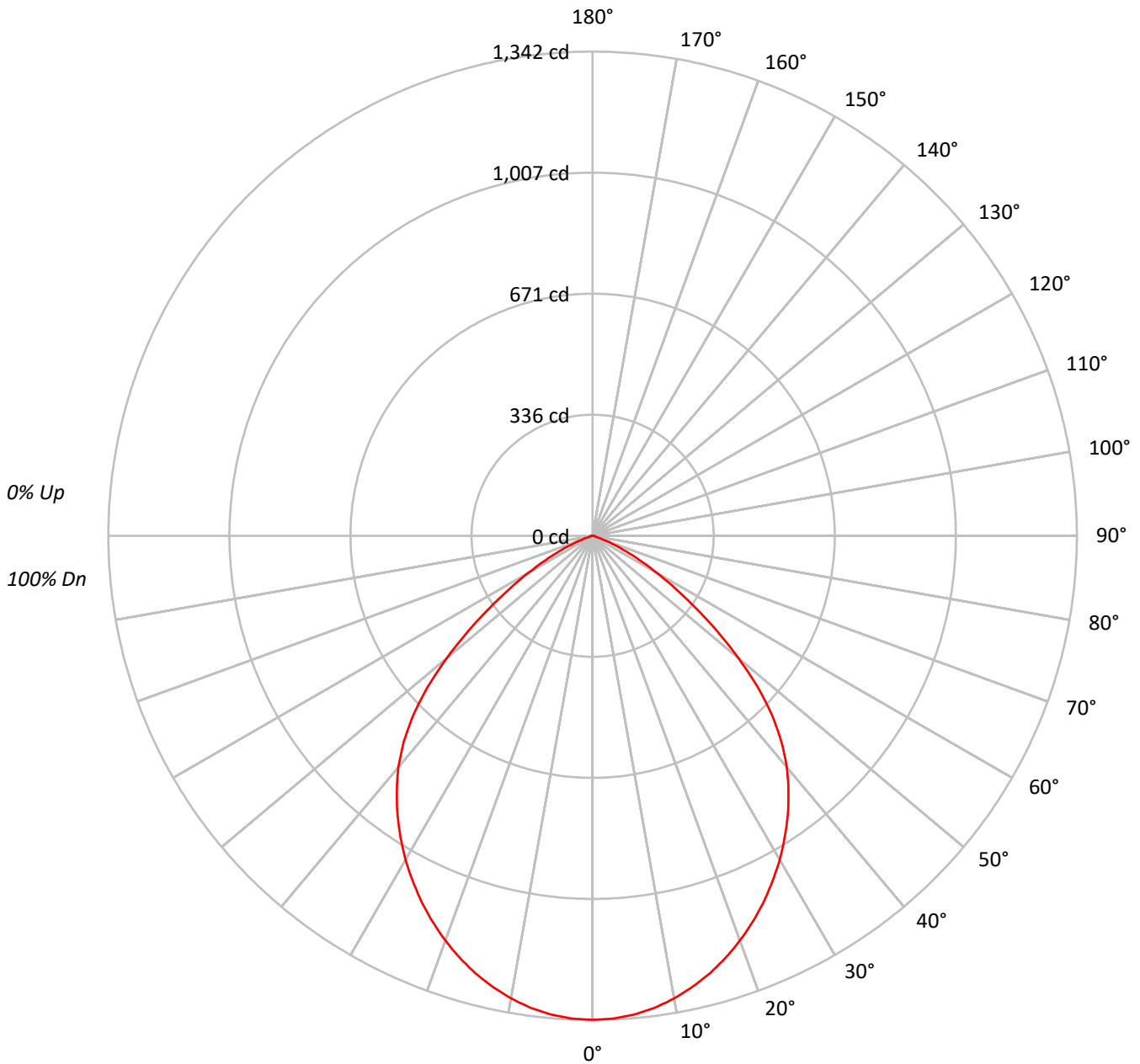
Lumens per Lamp: N/A
Luminaire Lumens: 2555.0 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			
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°	164820
5°	164254
10°	162448
15°	159658
20°	156075
25°	151902
30°	147122
35°	141458
40°	134313
45°	122123
50°	100819
55°	74238
60°	50394
65°	29506
70°	11674
75°	2611
80°	3396
85°	5779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	4.9
10°-20°	353.5	13.8
20°-30°	515.6	20.2
30°-40°	588.5	23.0
40°-50°	535.0	20.9
50°-60°	315.6	12.4
60°-70°	105.8	4.1
70°-80°	11.0	0.4
80°-90°	3.8	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°	995.2	39.0
0°-40°	1583.7	62.0
0°-60°	2434.3	95.3
0°-90°	2555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1342	
5°	1332	126
15°	1255	353
25°	1121	516
35°	943	588
45°	703	535
55°	347	316
65°	102	106
75°	6	11
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1341.6
2.5°	1339.5
5°	1331.9
7.5°	1319.5
10°	1302.2
12.5°	1280.1
15°	1255.3
17.5°	1226.3
20°	1193.8
22.5°	1158.6
25°	1120.6
27.5°	1079.2
30°	1037.1
32.5°	990.8
35°	943.2
37.5°	891.4
40°	837.5
42.5°	774.7
45°	702.9
47.5°	620.0
50°	527.5
52.5°	435.0
55°	346.6
57.5°	271.4
60°	205.1
62.5°	148.5
65°	101.5
67.5°	62.1
70°	32.5
72.5°	12.4
75°	5.5
77.5°	5.5
80°	4.8
82.5°	4.1
85°	4.1
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)