

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: P840078

Luminaire Tested: **LDS4C45D010 EU4459040 4LBPSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840078
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 4LBPSMB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

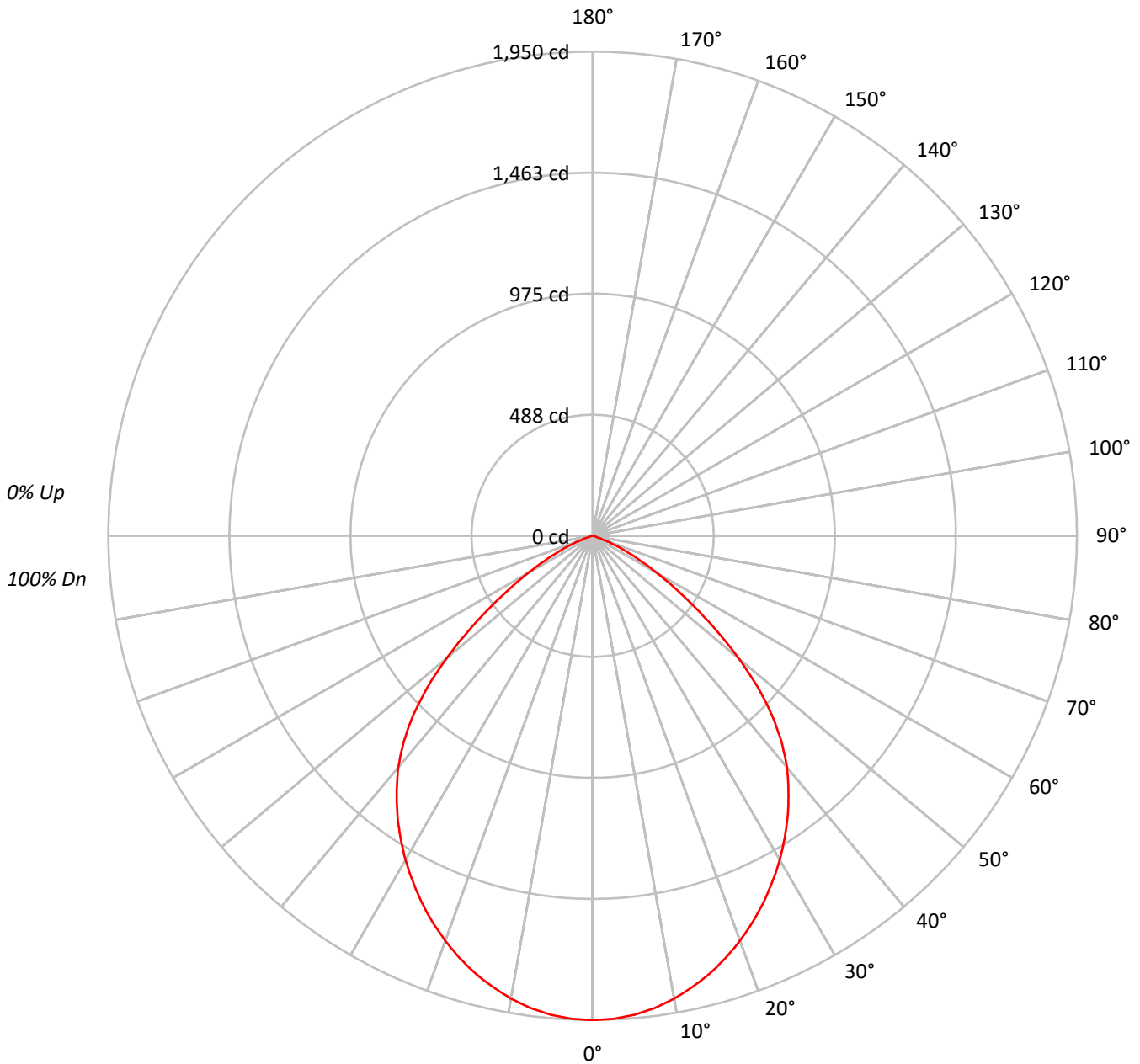
Lumens per Lamp: N/A
Luminaire Lumens: 3713.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	239589
5°	238765
10°	236137
15°	232079
20°	226883
25°	220817
30°	213852
35°	205618
40°	195255
45°	177511
50°	146555
55°	107908
60°	73245
65°	42878
70°	16954
75°	3797
80°	4952
85°	8458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	4.9
10°-20°	513.8	13.8
20°-30°	749.5	20.2
30°-40°	855.5	23.0
40°-50°	777.7	20.9
50°-60°	458.7	12.3
60°-70°	153.8	4.1
70°-80°	16.1	0.4
80°-90°	5.6	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°	1446.7	39.0
0°-40°	2302.1	62.0
0°-60°	3538.5	95.3
0°-90°	3713.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1950	
5°	1936	183
15°	1825	514
25°	1629	749
35°	1371	855
45°	1022	778
55°	504	459
65°	148	154
75°	8	16
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1950.2
2.5°	1947.1
5°	1936.1
7.5°	1918.0
10°	1892.9
12.5°	1860.8
15°	1824.7
17.5°	1782.5
20°	1735.4
22.5°	1684.2
25°	1629.0
27.5°	1568.8
30°	1507.5
32.5°	1440.3
35°	1371.0
37.5°	1295.8
40°	1217.5
42.5°	1126.1
45°	1021.7
47.5°	901.3
50°	766.8
52.5°	632.3
55°	503.8
57.5°	394.4
60°	298.1
62.5°	215.8
65°	147.5
67.5°	90.3
70°	47.2
72.5°	18.1
75°	8.0
77.5°	8.0
80°	7.0
82.5°	6.0
85°	6.0
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)