

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: P840047

Luminaire Tested: **LDS4C45D010 EU4459027 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840047
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 4LBCSMMS
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

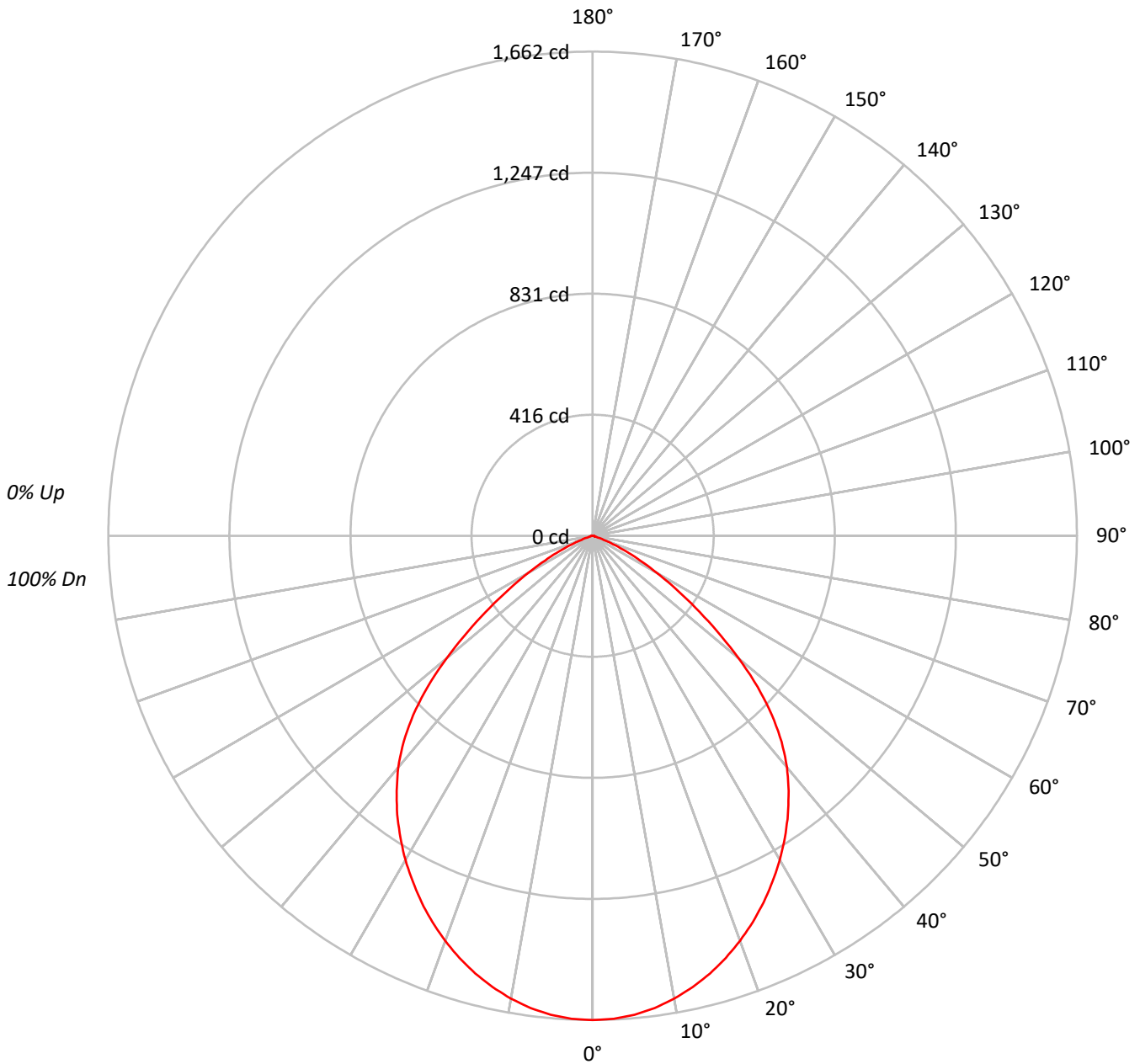
Lumens per Lamp: N/A
Luminaire Lumens: 3166.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	65	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°	204232
5°	203532
10°	201294
15°	197840
20°	193401
25°	188230
30°	182303
35°	175277
40°	166436
45°	151328
50°	124939
55°	91994
60°	62434
65°	36570
70°	14440
75°	3228
80°	4245
85°	7189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	4.9
10°-20°	438.0	13.8
20°-30°	638.9	20.2
30°-40°	729.2	23.0
40°-50°	663.0	20.9
50°-60°	391.0	12.3
60°-70°	131.1	4.1
70°-80°	13.7	0.4
80°-90°	4.8	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°	1233.2	39.0
0°-40°	1962.5	62.0
0°-60°	3016.4	95.3
0°-90°	3166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1662	
5°	1650	156
15°	1556	438
25°	1389	639
35°	1169	729
45°	871	663
55°	430	391
65°	126	131
75°	7	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1662.4
2.5°	1659.8
5°	1650.4
7.5°	1635.0
10°	1613.6
12.5°	1586.3
15°	1555.5
17.5°	1519.5
20°	1479.3
22.5°	1435.7
25°	1388.6
27.5°	1337.3
30°	1285.1
32.5°	1227.8
35°	1168.7
37.5°	1104.6
40°	1037.8
42.5°	960.0
45°	871.0
47.5°	768.3
50°	653.7
52.5°	539.0
55°	429.5
57.5°	336.2
60°	254.1
62.5°	184.0
65°	125.8
67.5°	77.0
70°	40.2
72.5°	15.4
75°	6.8
77.5°	6.8
80°	6.0
82.5°	5.1
85°	5.1
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)