

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: P839697

Luminaire Tested: **LDS4C10D010 EU4109027 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839697
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: LDS4C10D010 EU4109027 4LBCSMMS
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

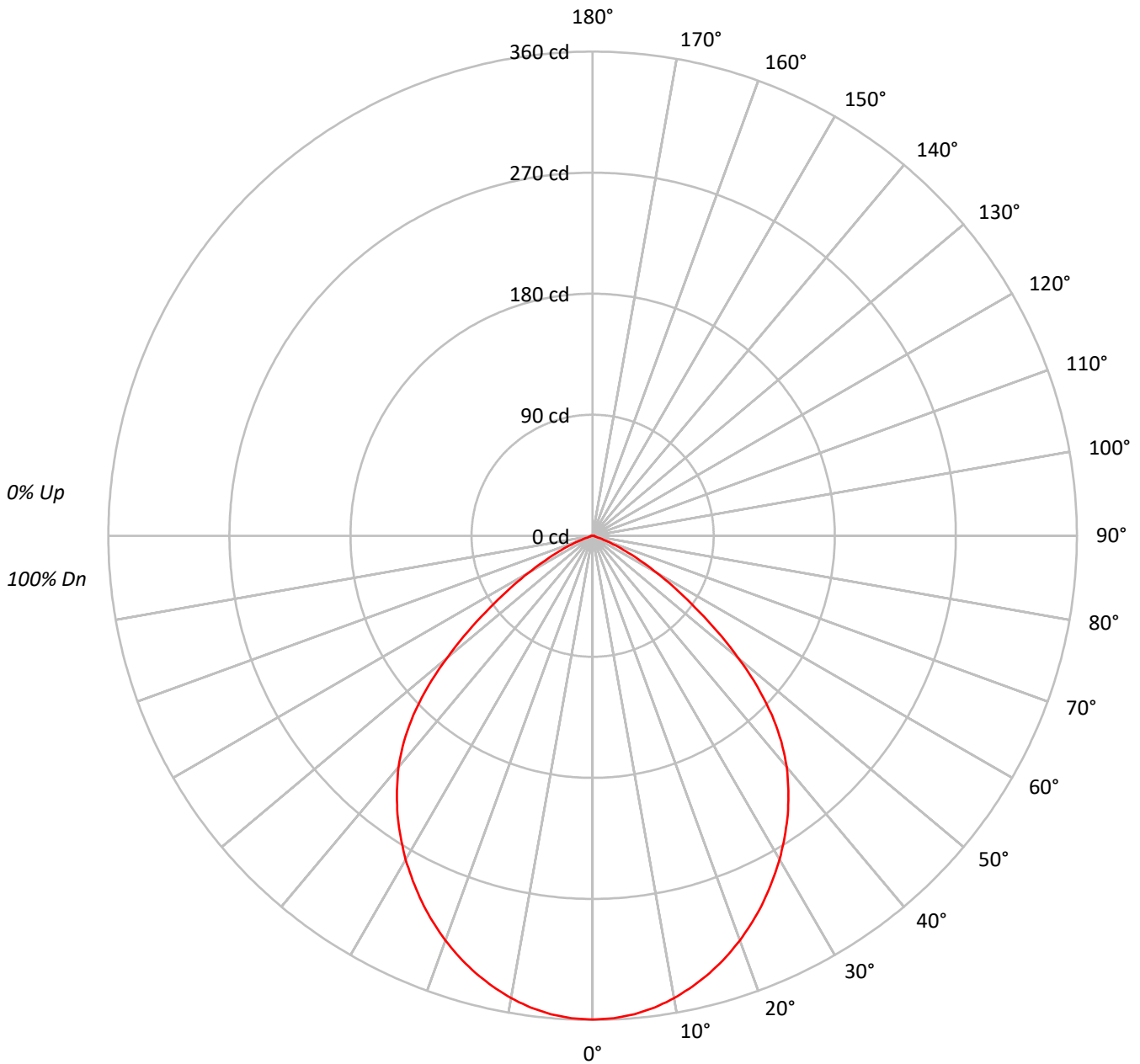
Lumens per Lamp: N/A
Luminaire Lumens: 685.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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°	44190
5°	44039
10°	43550
15°	42799
20°	41849
25°	40720
30°	39437
35°	37929
40°	36004
45°	32733
50°	27025
55°	19898
60°	13514
65°	7907
70°	3125
75°	712
80°	920
85°	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	4.9
10°-20°	94.8	13.8
20°-30°	138.2	20.2
30°-40°	157.8	23.0
40°-50°	143.4	20.9
50°-60°	84.6	12.4
60°-70°	28.4	4.1
70°-80°	3.0	0.4
80°-90°	1.0	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°	266.8	39.0
0°-40°	424.6	62.0
0°-60°	652.6	95.3
0°-90°	685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	360	
5°	357	34
15°	336	95
25°	300	138
35°	253	158
45°	188	143
55°	93	85
65°	27	28
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	359.7
2.5°	359.1
5°	357.1
7.5°	353.8
10°	349.1
12.5°	343.2
15°	336.5
17.5°	328.8
20°	320.1
22.5°	310.6
25°	300.4
27.5°	289.3
30°	278.0
32.5°	265.6
35°	252.9
37.5°	239.0
40°	224.5
42.5°	207.7
45°	188.4
47.5°	166.2
50°	141.4
52.5°	116.6
55°	92.9
57.5°	72.8
60°	55.0
62.5°	39.8
65°	27.2
67.5°	16.7
70°	8.7
72.5°	3.3
75°	1.5
77.5°	1.5
80°	1.3
82.5°	1.1
85°	1.1
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)