

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: P839816

Luminaire Tested: **LDS4C20D010 EU4209035 4LBCSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839816
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: LDS4C20D010 EU4209035 4LBCSMB
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

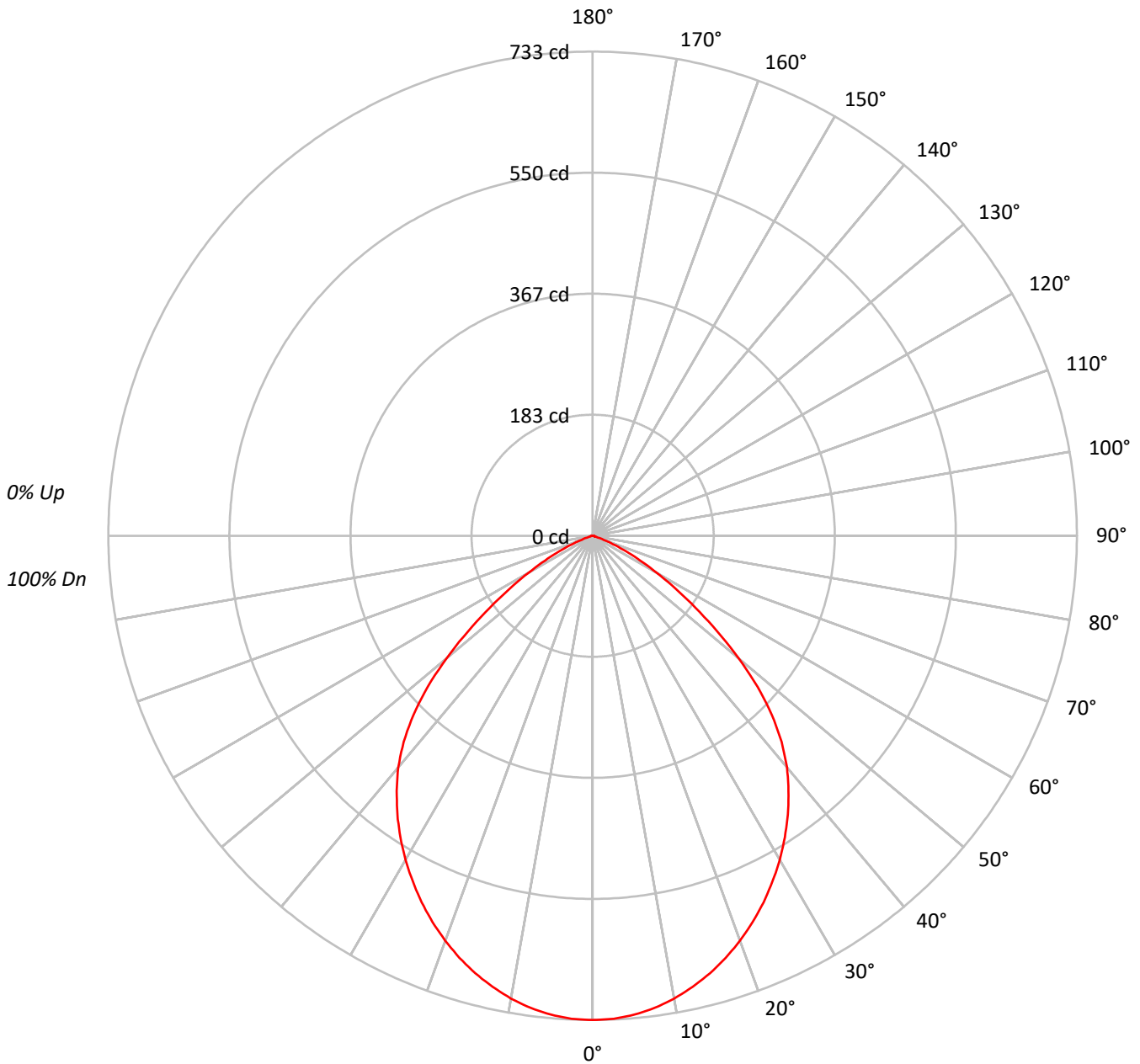
Lumens per Lamp: N/A
Luminaire Lumens: 1396.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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			
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°	90052
5°	89742
10°	88759
15°	87238
20°	85280
25°	83000
30°	80377
35°	77283
40°	73387
45°	66717
50°	55083
55°	40567
60°	27519
65°	16134
70°	6358
75°	1424
80°	1839
85°	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	4.9
10°-20°	193.1	13.8
20°-30°	281.7	20.2
30°-40°	321.5	23.0
40°-50°	292.3	20.9
50°-60°	172.4	12.4
60°-70°	57.8	4.1
70°-80°	6.0	0.4
80°-90°	2.1	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°	543.8	39.0
0°-40°	865.3	62.0
0°-60°	1330.0	95.3
0°-90°	1396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1396.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	733	
5°	728	69
15°	686	193
25°	612	282
35°	515	322
45°	384	292
55°	189	172
65°	56	58
75°	3	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	733.0
2.5°	731.9
5°	727.7
7.5°	720.9
10°	711.5
12.5°	699.4
15°	685.9
17.5°	670.0
20°	652.3
22.5°	633.0
25°	612.3
27.5°	589.7
30°	566.6
32.5°	541.4
35°	515.3
37.5°	487.0
40°	457.6
42.5°	423.3
45°	384.0
47.5°	338.8
50°	288.2
52.5°	237.7
55°	189.4
57.5°	148.3
60°	112.0
62.5°	81.1
65°	55.5
67.5°	34.0
70°	17.7
72.5°	6.8
75°	3.0
77.5°	3.0
80°	2.6
82.5°	2.3
85°	2.3
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)