

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: P839808

Luminaire Tested: **LDS4C20D010 EU4209030 4LBPSMB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839808
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 EU4209030 4LBPSMB
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

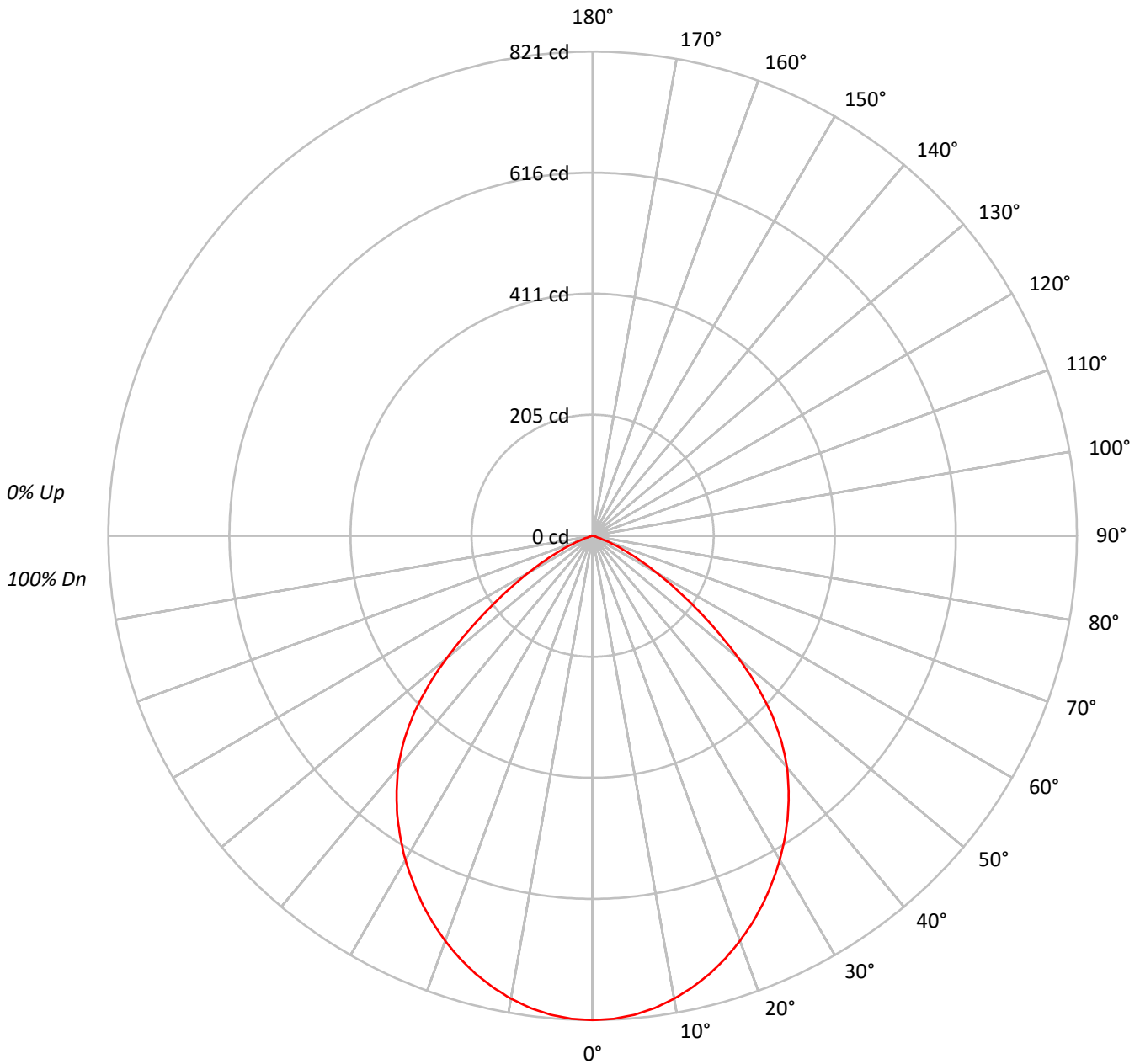
Lumens per Lamp: N/A
Luminaire Lumens: 1564.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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°	100887
5°	100545
10°	99437
15°	97731
20°	95543
25°	92990
30°	90052
35°	86596
40°	82224
45°	74761
50°	61715
55°	45451
60°	30836
65°	18052
70°	7148
75°	1614
80°	2122
85°	3524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.9
10°-20°	216.4	13.8
20°-30°	315.6	20.2
30°-40°	360.2	23.0
40°-50°	327.5	20.9
50°-60°	193.2	12.4
60°-70°	64.8	4.1
70°-80°	6.8	0.4
80°-90°	2.3	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°	609.2	39.0
0°-40°	969.5	62.0
0°-60°	1490.1	95.3
0°-90°	1564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1564.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	821	
5°	815	77
15°	768	216
25°	686	316
35°	577	360
45°	430	327
55°	212	193
65°	62	65
75°	3	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	821.2
2.5°	820.0
5°	815.3
7.5°	807.7
10°	797.1
12.5°	783.6
15°	768.4
17.5°	750.6
20°	730.8
22.5°	709.2
25°	686.0
27.5°	660.6
30°	634.8
32.5°	606.5
35°	577.4
37.5°	545.7
40°	512.7
42.5°	474.2
45°	430.3
47.5°	379.5
50°	322.9
52.5°	266.3
55°	212.2
57.5°	166.1
60°	125.5
62.5°	90.9
65°	62.1
67.5°	38.0
70°	19.9
72.5°	7.6
75°	3.4
77.5°	3.4
80°	3.0
82.5°	2.5
85°	2.5
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)