

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: P840330

Luminaire Tested: **LDS4C20D010 EU4209030 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840330
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 4LBPSSQMB
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

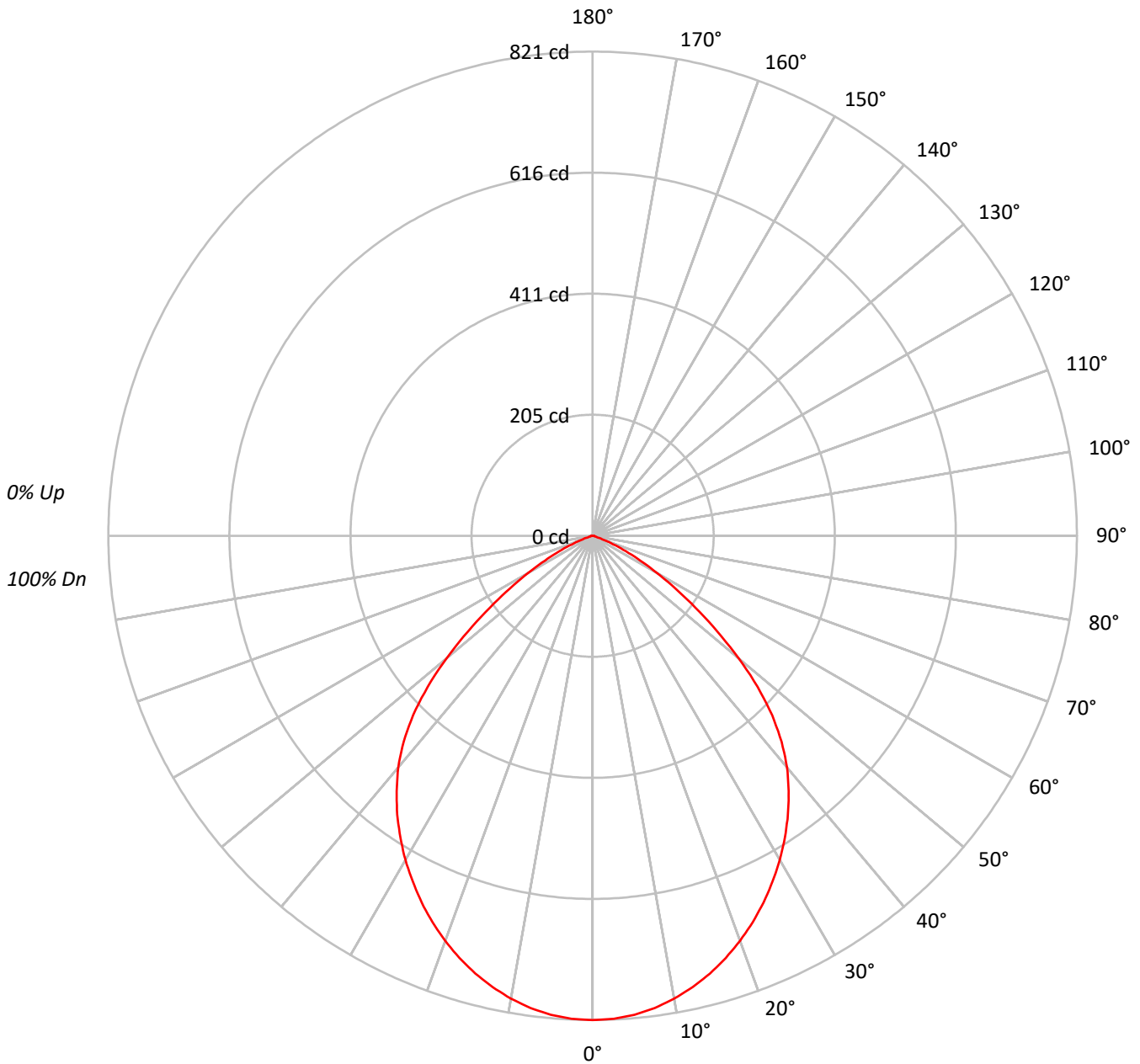
Lumens per Lamp: N/A
Luminaire Lumens: 1564.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	79237
5°	78968
10°	78098
15°	76758
20°	75040
25°	73034
30°	70727
35°	68013
40°	64578
45°	58717
50°	48471
55°	35697
60°	24219
65°	14178
70°	5614
75°	1268
80°	1667
85°	2768



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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)