

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: P840348

Luminaire Tested: **LDS4C30D010 EU4309027 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: P840348
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: LDS4C30D010 EU4309027 4LBPSSQMB
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

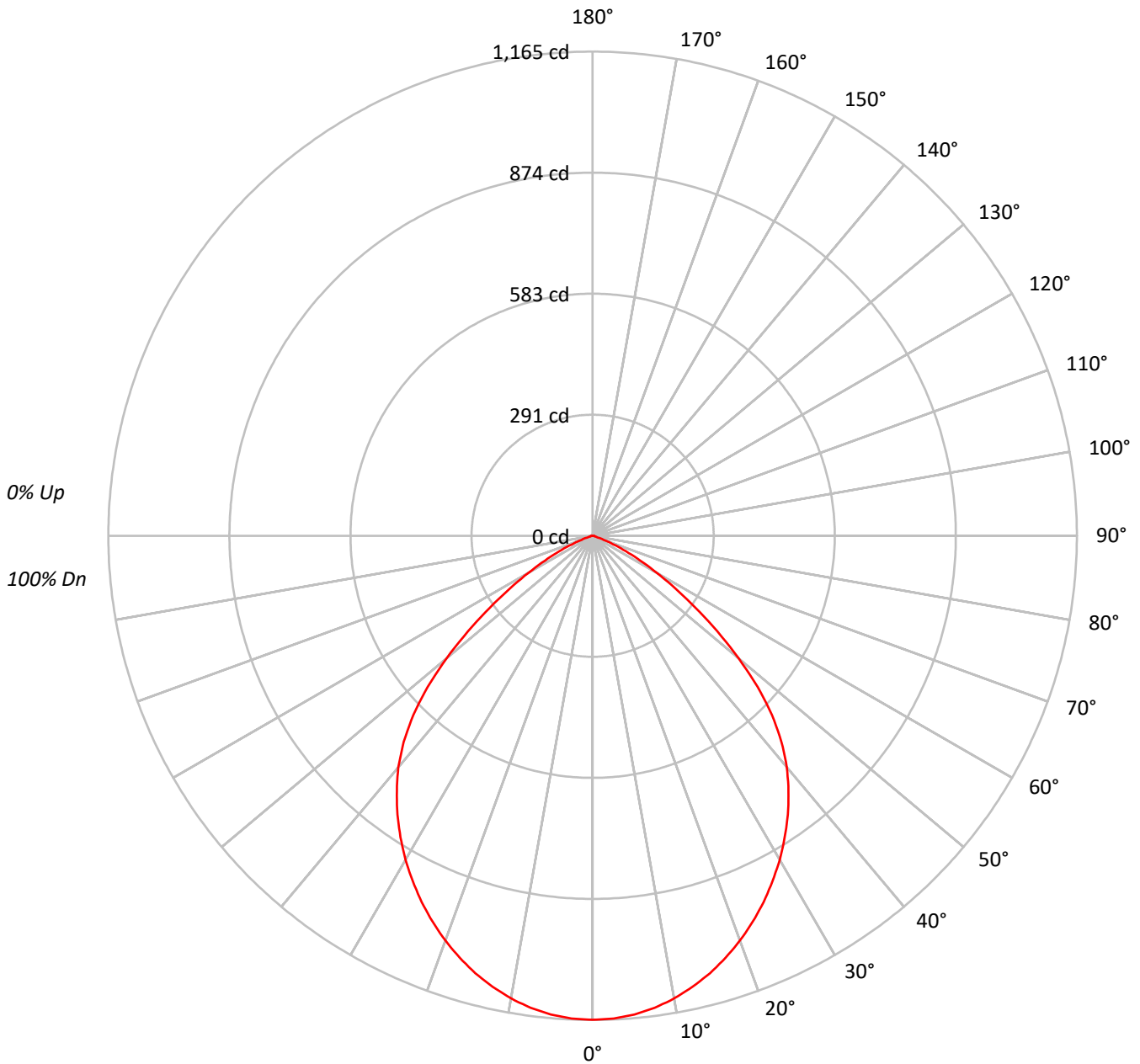
Lumens per Lamp: N/A
Luminaire Lumens: 2218.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112371
5°	111987
10°	110763
15°	108853
20°	106419
25°	103568
30°	100308
35°	96447
40°	91584
45°	83265
50°	68735
55°	50618
60°	34350
65°	20114
70°	7956
75°	1789
80°	2334
85°	3986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	4.9
10°-20°	306.8	13.8
20°-30°	447.6	20.2
30°-40°	510.9	23.0
40°-50°	464.4	20.9
50°-60°	273.9	12.3
60°-70°	91.9	4.1
70°-80°	9.6	0.4
80°-90°	3.4	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°	864.0	39.0
0°-40°	1374.8	62.0
0°-60°	2113.2	95.3
0°-90°	2218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1165	
5°	1156	110
15°	1090	307
25°	973	448
35°	819	511
45°	610	464
55°	301	274
65°	88	92
75°	5	10
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1164.6
2.5°	1162.8
5°	1156.2
7.5°	1145.5
10°	1130.5
12.5°	1111.3
15°	1089.7
17.5°	1064.5
20°	1036.4
22.5°	1005.8
25°	972.8
27.5°	936.9
30°	900.3
32.5°	860.1
35°	818.8
37.5°	773.8
40°	727.1
42.5°	672.5
45°	610.2
47.5°	538.3
50°	457.9
52.5°	377.6
55°	300.9
57.5°	235.6
60°	178.0
62.5°	128.9
65°	88.1
67.5°	53.9
70°	28.2
72.5°	10.8
75°	4.8
77.5°	4.8
80°	4.2
82.5°	3.6
85°	3.6
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)