

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: P840366

Luminaire Tested: **LDS4C35D010 EU4359050 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: P840366
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: LDS4C35D010 EU4359050 4LBSSQMB
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

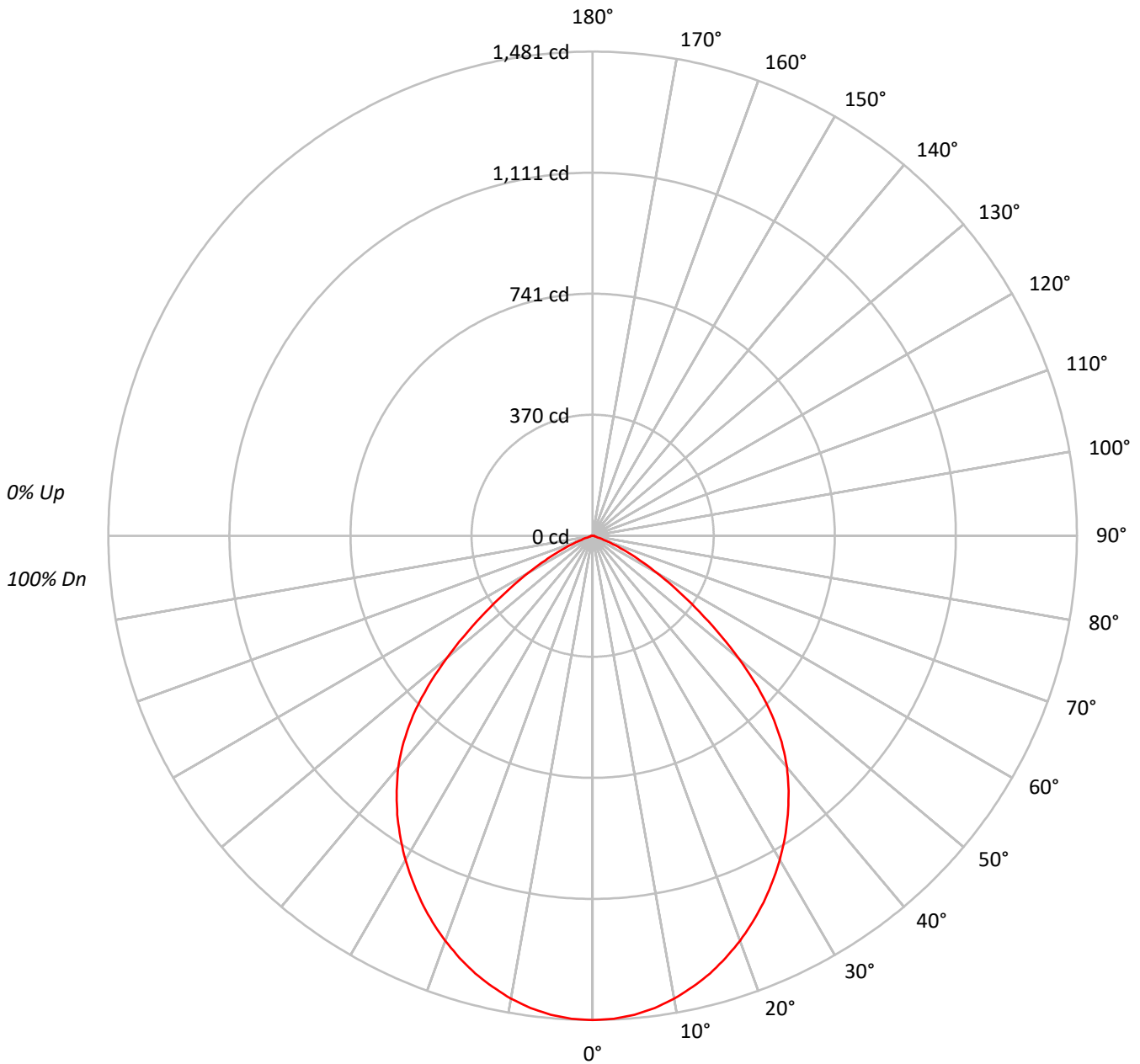
Lumens per Lamp: N/A
Luminaire Lumens: 2821.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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

TEST NUMBER: P840366

CATALOG NUMBER: LDS4C35D010 EU4359050 4LBPSSQMB

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°	142929
5°	142439
10°	140872
15°	138451
20°	135344
25°	131728
30°	127582
35°	122668
40°	116473
45°	105903
50°	87424
55°	64379
60°	43690
65°	25594
70°	10100
75°	2274
80°	2945
85°	5093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	4.9
10°-20°	390.3	13.8
20°-30°	569.2	20.2
30°-40°	649.8	23.0
40°-50°	590.7	20.9
50°-60°	348.4	12.3
60°-70°	116.8	4.1
70°-80°	12.2	0.4
80°-90°	4.3	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°	1098.8	39.0
0°-40°	1748.6	62.0
0°-60°	2687.7	95.3
0°-90°	2821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2821.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1481	
5°	1471	139
15°	1386	390
25°	1237	569
35°	1041	650
45°	776	591
55°	383	348
65°	112	117
75°	6	12
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1481.3
2.5°	1479.0
5°	1470.6
7.5°	1456.9
10°	1437.8
12.5°	1413.4
15°	1386.0
17.5°	1353.9
20°	1318.1
22.5°	1279.2
25°	1237.3
27.5°	1191.6
30°	1145.1
32.5°	1094.0
35°	1041.4
37.5°	984.2
40°	924.7
42.5°	855.4
45°	776.1
47.5°	684.6
50°	582.4
52.5°	480.3
55°	382.7
57.5°	299.6
60°	226.4
62.5°	163.9
65°	112.1
67.5°	68.6
70°	35.8
72.5°	13.7
75°	6.1
77.5°	6.1
80°	5.3
82.5°	4.6
85°	4.6
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)