

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: P840359

Luminaire Tested: **LDS4C35D010 EU4359027 4LBPSSQMMS**

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: P840359
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 EU4359027 4LBPSSQMMS
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

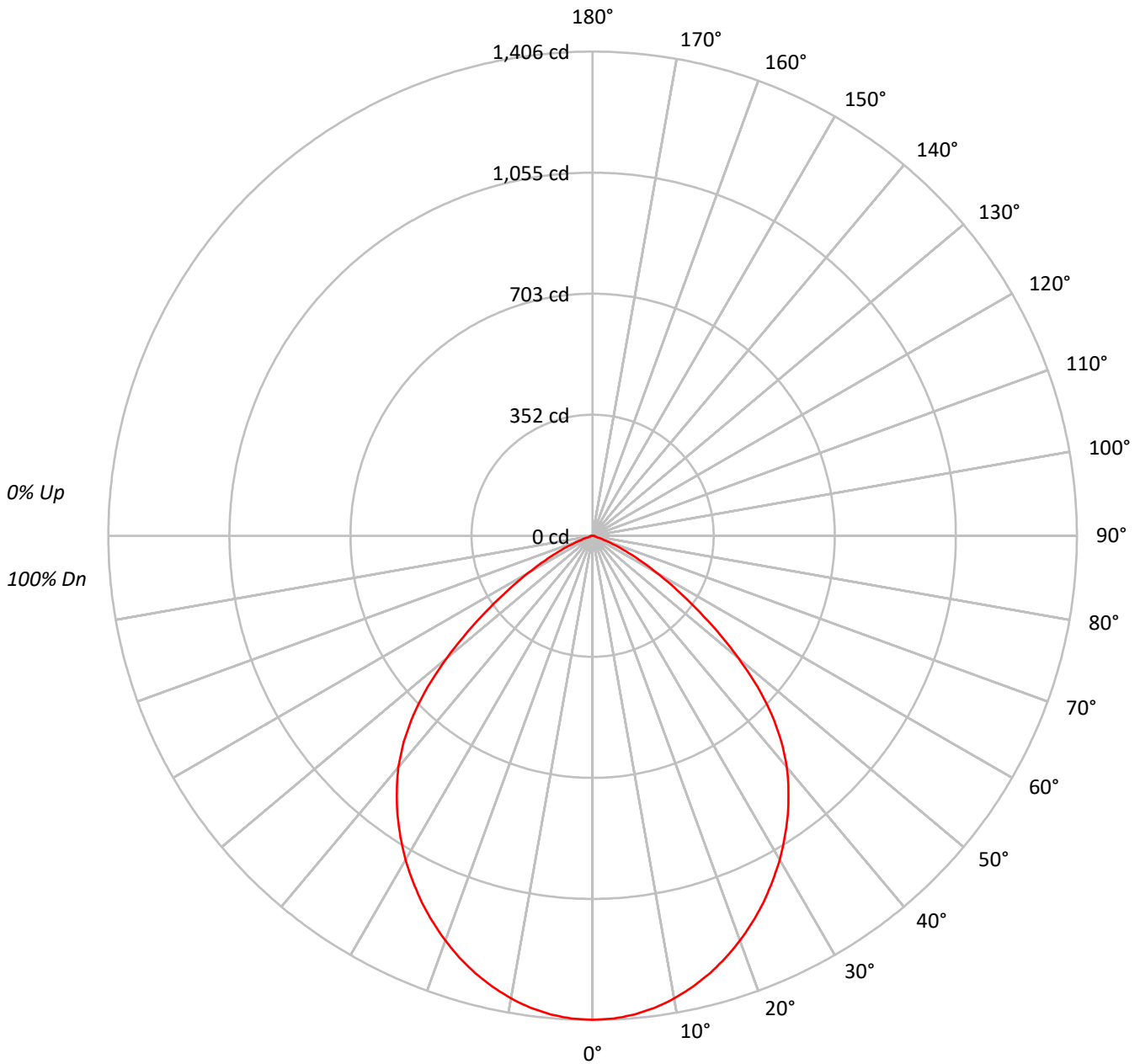
Lumens per Lamp: N/A
Luminaire Lumens: 2677.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P840359

CATALOG NUMBER: LDS4C35D010 EU4359027 4LBPSSQMMS

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°	135625
5°	135165
10°	133680
15°	131379
20°	128434
25°	124999
30°	121064
35°	116401
40°	110528
45°	100500
50°	82966
55°	61099
60°	41471
65°	24270
70°	9592
75°	2162
80°	2834
85°	4760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	4.9
10°-20°	370.3	13.8
20°-30°	540.2	20.2
30°-40°	616.6	23.0
40°-50°	560.5	20.9
50°-60°	330.6	12.4
60°-70°	110.9	4.1
70°-80°	11.6	0.4
80°-90°	4.0	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°	1042.7	39.0
0°-40°	1659.3	62.0
0°-60°	2550.5	95.3
0°-90°	2677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1406	
5°	1396	132
15°	1315	370
25°	1174	540
35°	988	617
45°	736	561
55°	363	331
65°	106	111
75°	6	12
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1405.6
2.5°	1403.5
5°	1395.5
7.5°	1382.5
10°	1364.4
12.5°	1341.3
15°	1315.2
17.5°	1284.8
20°	1250.8
22.5°	1213.9
25°	1174.1
27.5°	1130.7
30°	1086.6
32.5°	1038.1
35°	988.2
37.5°	934.0
40°	877.5
42.5°	811.7
45°	736.5
47.5°	649.6
50°	552.7
52.5°	455.8
55°	363.2
57.5°	284.3
60°	214.9
62.5°	155.5
65°	106.3
67.5°	65.1
70°	34.0
72.5°	13.0
75°	5.8
77.5°	5.8
80°	5.1
82.5°	4.3
85°	4.3
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)