

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: P840398

Luminaire Tested: **LDS4C55D010 EU4559027 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: P840398
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: LDS4C55D010 EU4559027 4LBPSSQMB
Description: 4 INCH 5500 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

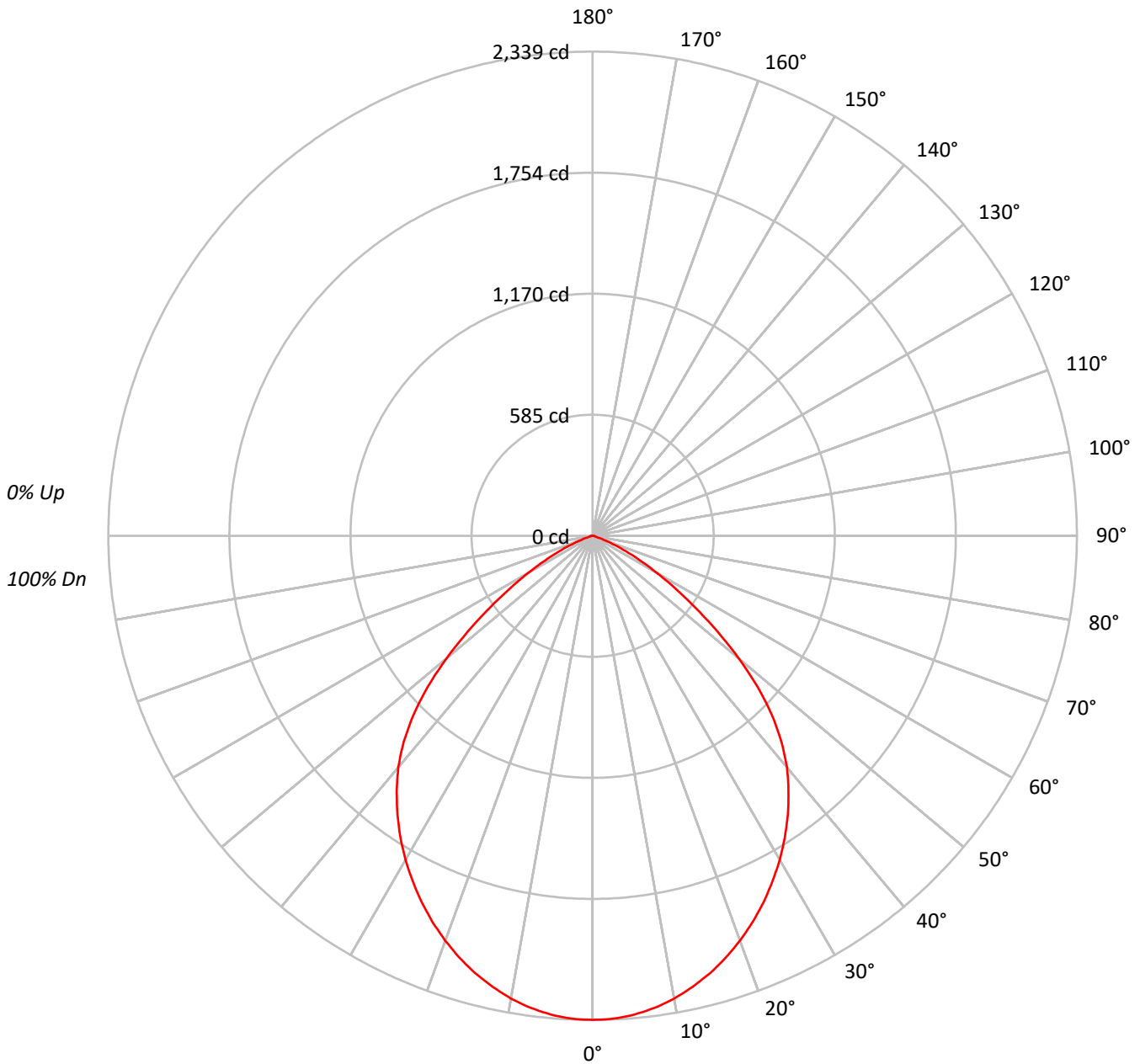
Lumens per Lamp: N/A
Luminaire Lumens: 4453.9 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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: P840398

CATALOG NUMBER: LDS4C55D010 EU4559027 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			
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°	225659
5°	224893
10°	222418
15°	218595
20°	213690
25°	207977
30°	201429
35°	193672
40°	183898
45°	167199
50°	138041
55°	101640
60°	68990
65°	40388
70°	15968
75°	3579
80°	4668
85°	7971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	4.9
10°-20°	616.2	13.8
20°-30°	898.8	20.2
30°-40°	1025.9	23.0
40°-50°	932.6	20.9
50°-60°	550.1	12.3
60°-70°	184.5	4.1
70°-80°	19.3	0.4
80°-90°	6.7	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°	1734.9	39.0
0°-40°	2760.8	62.0
0°-60°	4243.5	95.3
0°-90°	4453.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4453.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2339	
5°	2322	220
15°	2188	616
25°	1954	899
35°	1644	1026
45°	1225	933
55°	604	550
65°	177	184
75°	10	19
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2338.7
2.5°	2335.1
5°	2321.9
7.5°	2300.2
10°	2270.1
12.5°	2231.6
15°	2188.3
17.5°	2137.7
20°	2081.1
22.5°	2019.7
25°	1953.5
27.5°	1881.3
30°	1807.9
32.5°	1727.3
35°	1644.2
37.5°	1553.9
40°	1460.0
42.5°	1350.5
45°	1225.3
47.5°	1080.9
50°	919.6
52.5°	758.3
55°	604.2
57.5°	473.0
60°	357.5
62.5°	258.8
65°	176.9
67.5°	108.3
70°	56.6
72.5°	21.7
75°	9.6
77.5°	9.6
80°	8.4
82.5°	7.2
85°	7.2
87.5°	6.0
90°	0.0



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— 0°-180°







(END OF REPORT)