

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: P840400

Luminaire Tested: **LDS4C55D010 EU4559030 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: P840400
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 EU4559030 4LBSSQMB
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

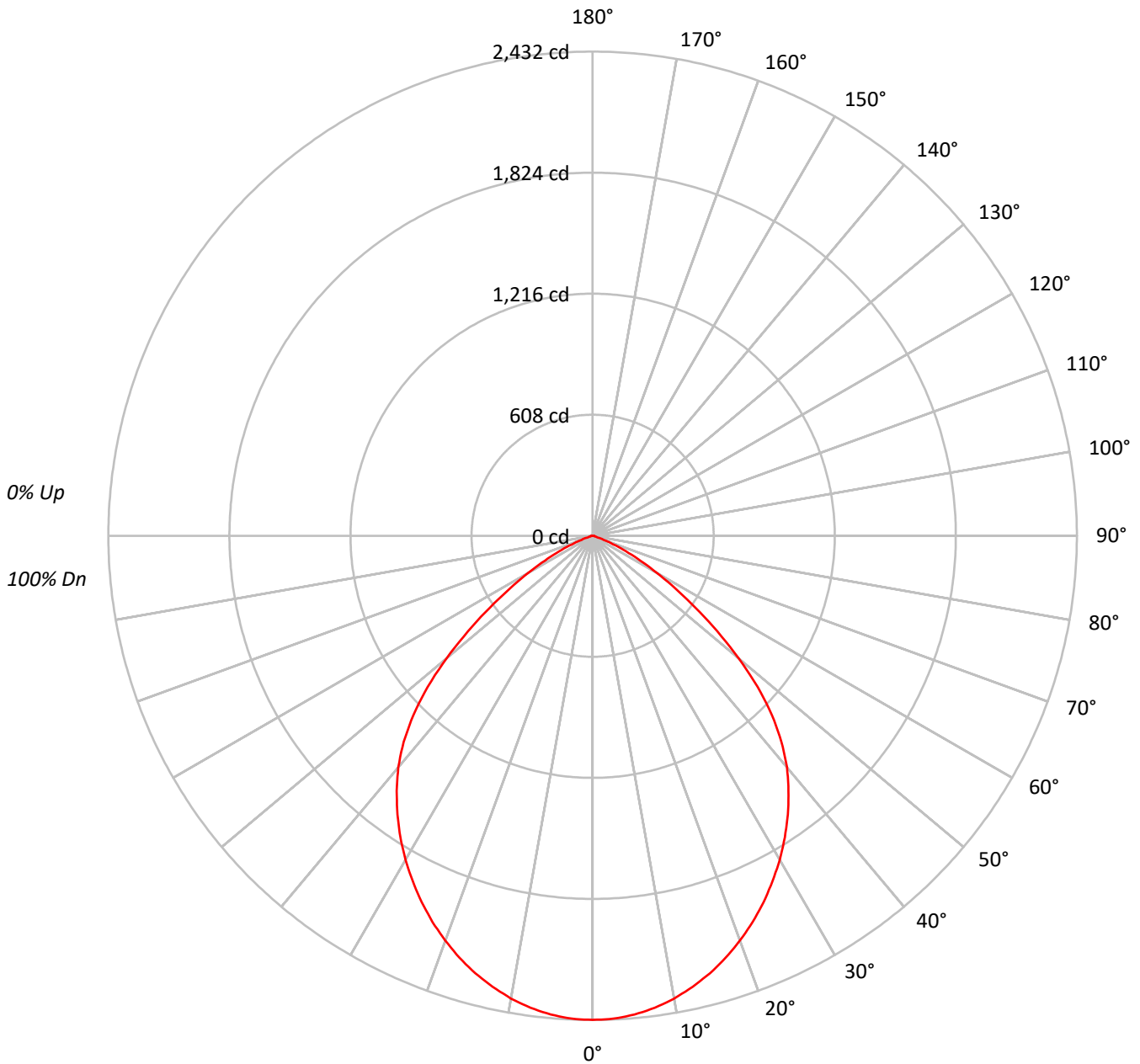
Lumens per Lamp: N/A
Luminaire Lumens: 4631.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	234632
5°	233824
10°	231256
15°	227276
20°	222182
25°	216249
30°	209428
35°	201364
40°	191216
45°	173845
50°	143520
55°	105678
60°	71730
65°	42009
70°	16588
75°	3728
80°	4890
85°	8303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	4.9
10°-20°	640.7	13.8
20°-30°	934.5	20.2
30°-40°	1066.7	23.0
40°-50°	969.7	20.9
50°-60°	571.9	12.3
60°-70°	191.8	4.1
70°-80°	20.0	0.4
80°-90°	7.0	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°	1803.9	39.0
0°-40°	2870.5	62.0
0°-60°	4412.1	95.3
0°-90°	4631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4631.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2432	
5°	2414	229
15°	2275	641
25°	2031	934
35°	1710	1067
45°	1274	970
55°	628	572
65°	184	192
75°	10	20
85°	8	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2431.7
2.5°	2427.9
5°	2414.1
7.5°	2391.6
10°	2360.3
12.5°	2320.3
15°	2275.2
17.5°	2222.7
20°	2163.8
22.5°	2100.0
25°	2031.2
27.5°	1956.1
30°	1879.7
32.5°	1795.9
35°	1709.5
37.5°	1615.7
40°	1518.1
42.5°	1404.2
45°	1274.0
47.5°	1123.8
50°	956.1
52.5°	788.4
55°	628.2
57.5°	491.8
60°	371.7
62.5°	269.1
65°	184.0
67.5°	112.6
70°	58.8
72.5°	22.5
75°	10.0
77.5°	10.0
80°	8.8
82.5°	7.5
85°	7.5
87.5°	6.3
90°	0.0



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— 0°-180°







(END OF REPORT)