

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: P840404

Luminaire Tested: **LDS4C55D010 EU4559040 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: P840404
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 EU4559040 4LBSSQMB
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

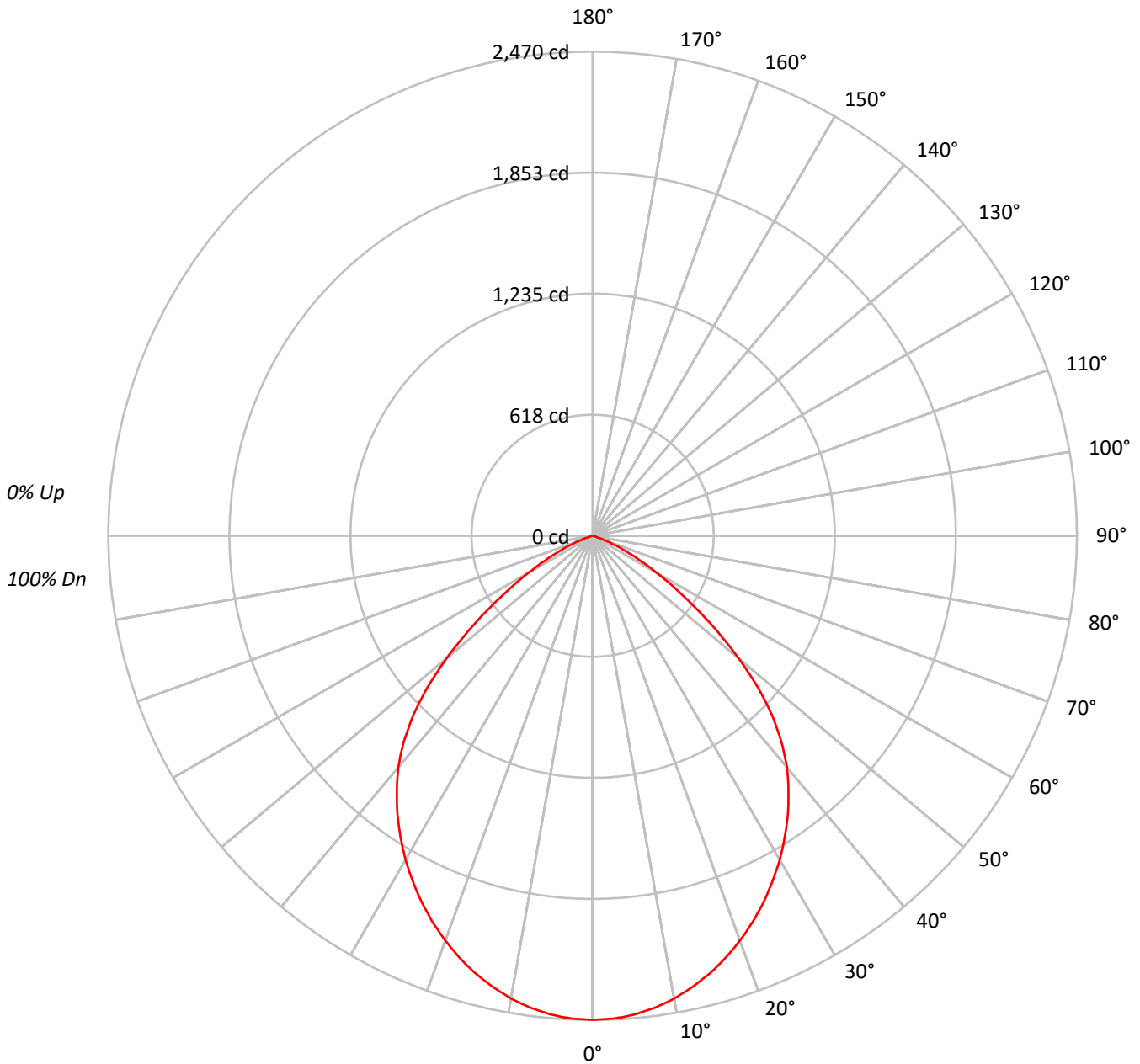
Lumens per Lamp: N/A
Luminaire Lumens: 4703.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P840404

CATALOG NUMBER: LDS4C55D010 EU4559040 4LBPSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P840404

CATALOG NUMBER: LDS4C55D010 EU4559040 4LBPSSQMB

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
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°	238279
5°	237465
10°	234852
15°	230812
20°	225642
25°	219613
30°	212693
35°	204497
40°	194188
45°	176547
50°	145757
55°	107326
60°	72849
65°	42649
70°	16842
75°	3803
80°	4945
85°	8414



TEST NUMBER: P840404

CATALOG NUMBER: LDS4C55D010 EU4559040 4LBPSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	4.9
10°-20°	650.6	13.8
20°-30°	949.0	20.2
30°-40°	1083.2	23.0
40°-50°	984.8	20.9
50°-60°	580.8	12.3
60°-70°	194.8	4.1
70°-80°	20.4	0.4
80°-90°	7.1	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°	1831.9	39.0
0°-40°	2915.2	62.0
0°-60°	4480.8	95.3
0°-90°	4703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4703.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2470	
5°	2452	232
15°	2311	651
25°	2063	949
35°	1736	1083
45°	1294	985
55°	638	581
65°	187	195
75°	10	20
85°	8	7
90°	0	



TEST NUMBER: P840404

CATALOG NUMBER: LDS4C55D010 EU4559040 4LBPSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2469.5
2.5°	2465.6
5°	2451.7
7.5°	2428.8
10°	2397.0
12.5°	2356.3
15°	2310.6
17.5°	2257.2
20°	2197.5
22.5°	2132.7
25°	2062.8
27.5°	1986.5
30°	1909.0
32.5°	1823.8
35°	1736.1
37.5°	1640.8
40°	1541.7
42.5°	1426.0
45°	1293.8
47.5°	1141.3
50°	971.0
52.5°	800.7
55°	638.0
57.5°	499.5
60°	377.5
62.5°	273.3
65°	186.8
67.5°	114.4
70°	59.7
72.5°	22.9
75°	10.2
77.5°	10.2
80°	8.9
82.5°	7.6
85°	7.6
87.5°	6.4
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)