

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: P840046

Luminaire Tested: **LDS4C45D010 EU4459027 4LBCSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840046
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: LDS4C45D010 EU4459027 4LBCSMB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

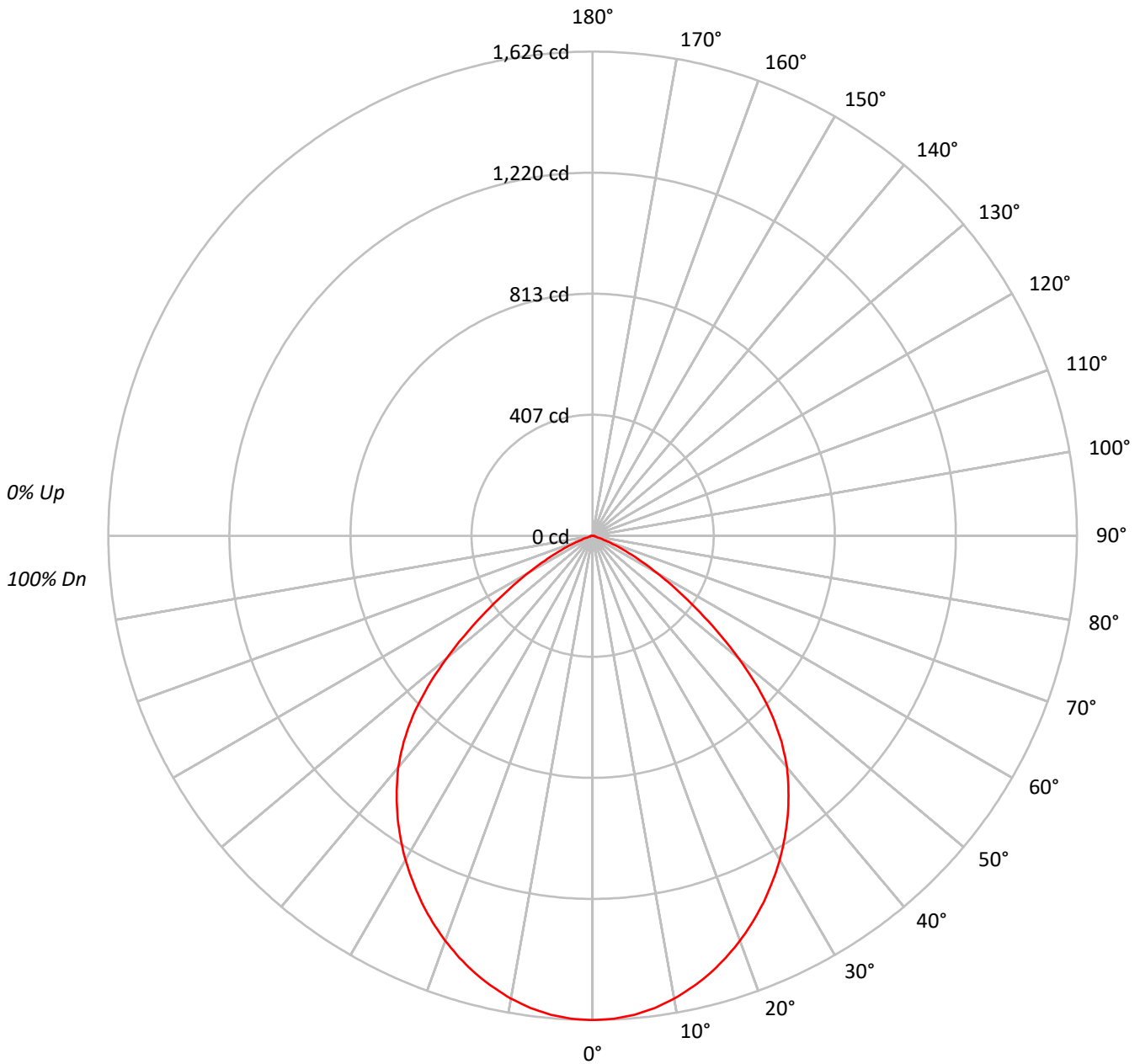
Lumens per Lamp: N/A
Luminaire Lumens: 3097.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P840046

CATALOG NUMBER: LDS4C45D010 EU4459027 4LBCSMB

Luminous Intensity Polar Plot





TEST NUMBER: P840046

CATALOG NUMBER: LDS4C45D010 EU4459027 4LBCSMB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	199784
5°	199105
10°	196916
15°	193528
20°	189191
25°	184136
30°	178331
35°	171468
40°	162812
45°	148027
50°	122206
55°	89981
60°	61083
65°	35756
70°	14117
75°	3180
80°	4174
85°	7048



TEST NUMBER: P840046

CATALOG NUMBER: LDS4C45D010 EU4459027 4LBCSMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	4.9
10°-20°	428.4	13.8
20°-30°	624.9	20.2
30°-40°	713.3	23.0
40°-50°	648.5	20.9
50°-60°	382.5	12.3
60°-70°	128.2	4.1
70°-80°	13.4	0.4
80°-90°	4.7	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°	1206.4	39.0
0°-40°	1919.7	62.0
0°-60°	2950.7	95.3
0°-90°	3097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3097.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1626	
5°	1614	153
15°	1522	428
25°	1358	625
35°	1143	713
45°	852	648
55°	420	382
65°	123	128
75°	7	13
85°	5	5
90°	0	



TEST NUMBER: P840046

CATALOG NUMBER: LDS4C45D010 EU4459027 4LBCSMB

CANDELA DISTRIBUTION (FULL):

0°	
0°	1626.2
2.5°	1623.7
5°	1614.5
7.5°	1599.4
10°	1578.5
12.5°	1551.7
15°	1521.6
17.5°	1486.4
20°	1447.1
22.5°	1404.4
25°	1358.4
27.5°	1308.1
30°	1257.1
32.5°	1201.0
35°	1143.3
37.5°	1080.5
40°	1015.2
42.5°	939.0
45°	852.0
47.5°	751.6
50°	639.4
52.5°	527.3
55°	420.1
57.5°	328.9
60°	248.6
62.5°	179.9
65°	123.0
67.5°	75.3
70°	39.3
72.5°	15.1
75°	6.7
77.5°	6.7
80°	5.9
82.5°	5.0
85°	5.0
87.5°	4.2
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)