

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: P840084

Luminaire Tested: **LDS4C45D010 EU4459040 4LBSWH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C45D010 EU4459040 4LBSWH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

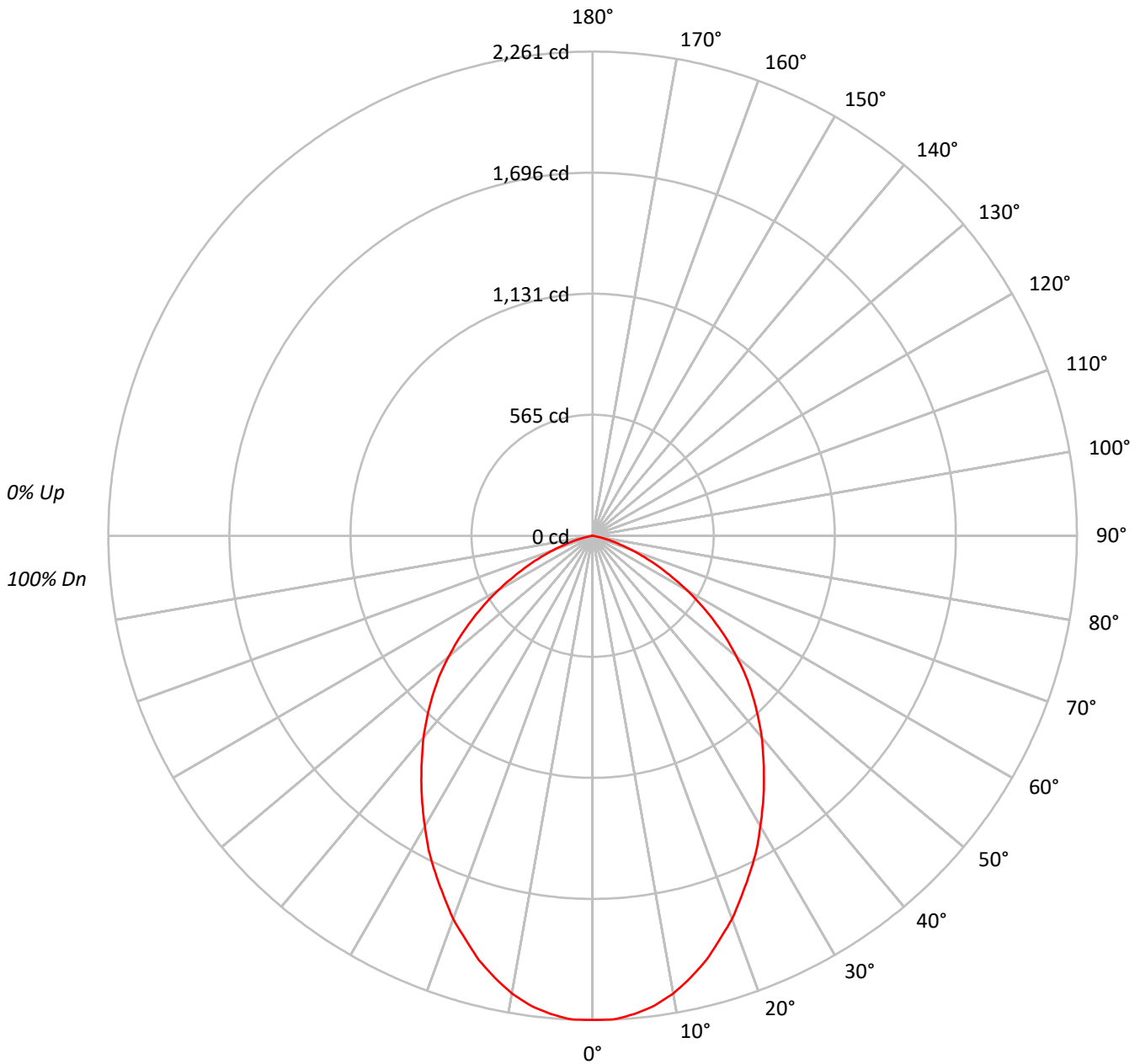
Lumens per Lamp: N/A
Luminaire Lumens: 4323.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840084

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSWH

Luminous Intensity Polar Plot





TEST NUMBER: P840084

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSWH

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	277759
5°	276477
10°	270767
15°	260925
20°	248912
25°	235498
30°	222151
35°	209157
40°	196939
45°	183592
50°	167407
55°	147833
60°	125139
65°	98255
70°	70116
75°	38401
80°	6792
85°	0



TEST NUMBER: P840084

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	4.9
10°-20°	575.6	13.3
20°-30°	799.4	18.5
30°-40°	872.3	20.2
40°-50°	813.7	18.8
50°-60°	617.6	14.3
60°-70°	338.2	7.8
70°-80°	93.1	2.2
80°-90°	1.3	0.0
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°	1586.8	36.7
0°-40°	2459.1	56.9
0°-60°	3890.4	90.0
0°-90°	4323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4323.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2261	
5°	2242	212
15°	2052	576
25°	1737	799
35°	1395	872
45°	1057	814
55°	690	618
65°	338	338
75°	81	93
85°	0	1
90°	0	



TEST NUMBER: P840084

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSWH

CANDELA DISTRIBUTION (FULL):

	0°
0°	2260.9
2.5°	2260.9
5°	2241.9
7.5°	2213.4
10°	2170.5
12.5°	2113.4
15°	2051.5
17.5°	1975.4
20°	1903.9
22.5°	1818.2
25°	1737.3
27.5°	1656.5
30°	1566.0
32.5°	1480.3
35°	1394.6
37.5°	1308.9
40°	1228.0
42.5°	1142.3
45°	1056.7
47.5°	971.0
50°	875.9
52.5°	785.3
55°	690.2
57.5°	599.7
60°	509.3
62.5°	418.9
65°	338.0
67.5°	261.7
70°	195.2
72.5°	133.3
75°	80.9
77.5°	38.1
80°	9.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)