

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: P840073

Luminaire Tested: **LDS4C45D010 EU4459035 4LBSLI**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P840073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C45D010 EU4459035 4LBSLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

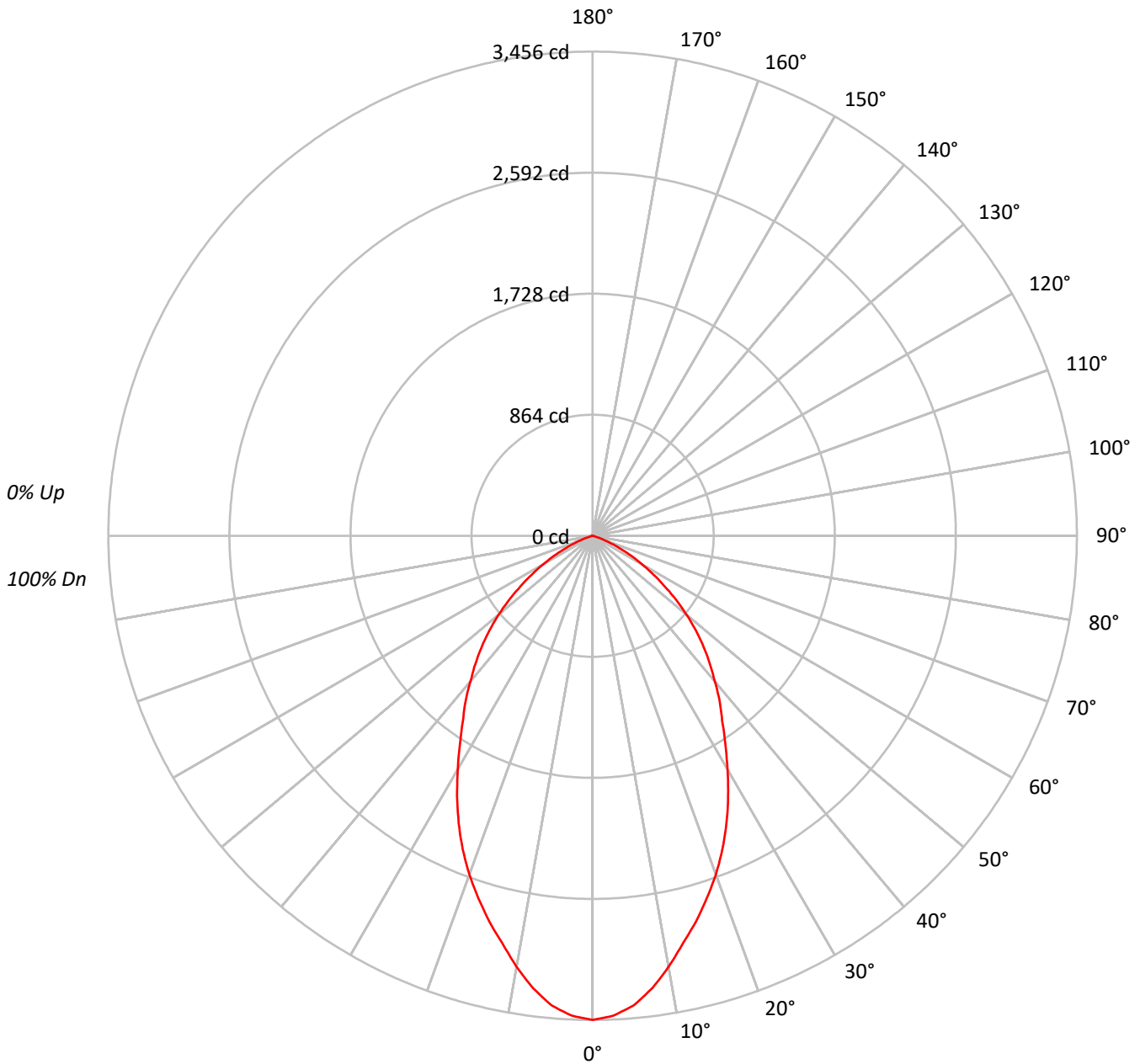
Lumens per Lamp: N/A
Luminaire Lumens: 4840.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840073

CATALOG NUMBER: LDS4C45D010 EU4459035 4LBSLI

Luminous Intensity Polar Plot





TEST NUMBER: P840073

CATALOG NUMBER: LDS4C45D010 EU4459035 4LBSLI

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	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80	80	80	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71	71	71	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	63	63	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57	57	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51	51	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	46	46	46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42	42	42	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	424569
5°	414956
10°	389677
15°	362535
20°	336245
25°	306501
30°	272880
35°	241867
40°	217387
45°	194573
50°	166910
55°	134275
60°	100052
65°	63866
70°	30783
75°	5126
80°	3750
85°	0



TEST NUMBER: P840073

CATALOG NUMBER: LDS4C45D010 EU4459035 4LBSLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	6.5
10°-20°	799.2	16.5
20°-30°	1035.6	21.4
30°-40°	1014.7	21.0
40°-50°	860.1	17.8
50°-60°	563.8	11.6
60°-70°	226.6	4.7
70°-80°	25.9	0.5
80°-90°	0.7	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°	2148.2	44.4
0°-40°	3162.9	65.3
0°-60°	4586.8	94.8
0°-90°	4840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4840.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3456	
5°	3365	313
15°	2850	799
25°	2261	1036
35°	1613	1015
45°	1120	860
55°	627	564
65°	220	227
75°	11	26
85°	0	1
90°	0	



TEST NUMBER: P840073

CATALOG NUMBER: LDS4C45D010 EU4459035 4LBSLI

CANDELA DISTRIBUTION (FULL):

	0°
0°	3455.9
2.5°	3429.1
5°	3364.8
7.5°	3257.6
10°	3123.7
12.5°	2979.0
15°	2850.4
17.5°	2711.2
20°	2571.9
22.5°	2421.9
25°	2261.1
27.5°	2094.9
30°	1923.6
32.5°	1762.8
35°	1612.7
37.5°	1489.6
40°	1355.5
42.5°	1237.7
45°	1119.9
47.5°	996.6
50°	873.3
52.5°	750.2
55°	626.9
57.5°	514.4
60°	407.2
62.5°	310.7
65°	219.7
67.5°	144.7
70°	85.7
72.5°	37.5
75°	10.8
77.5°	5.3
80°	5.3
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)