

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: P840053

Luminaire Tested: **LDS4C45D010 EU4459027 4LBSLI**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840053
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 EU4459027 4LBSLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

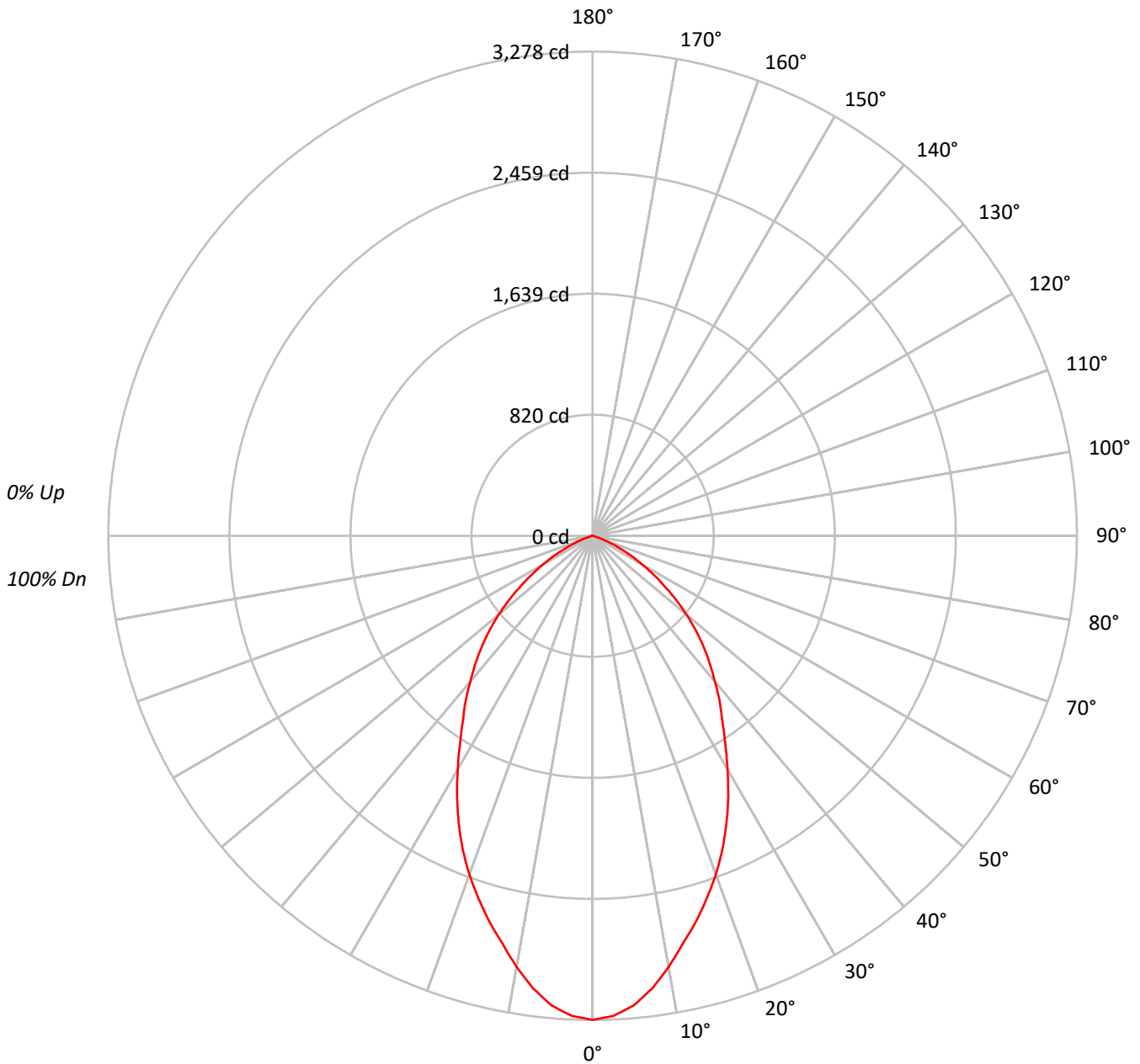
Lumens per Lamp: N/A
Luminaire Lumens: 4590.9 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	402726
5°	393609
10°	369630
15°	343889
20°	318935
25°	290736
30°	258836
35°	229434
40°	206209
45°	184565
50°	158329
55°	127356
60°	94892
65°	60581
70°	29203
75°	4842
80°	3537
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	6.5
10°-20°	758.1	16.5
20°-30°	982.3	21.4
30°-40°	962.5	21.0
40°-50°	815.8	17.8
50°-60°	534.8	11.6
60°-70°	214.9	4.7
70°-80°	24.5	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°	2037.7	44.4
0°-40°	3000.2	65.3
0°-60°	4350.8	94.8
0°-90°	4590.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4590.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3278	
5°	3192	297
15°	2704	758
25°	2145	982
35°	1530	962
45°	1062	816
55°	595	535
65°	208	215
75°	10	25
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3278.1
2.5°	3252.7
5°	3191.7
7.5°	3090.0
10°	2963.0
12.5°	2825.8
15°	2703.8
17.5°	2571.7
20°	2439.5
22.5°	2297.3
25°	2144.8
27.5°	1987.2
30°	1824.6
32.5°	1672.1
35°	1529.8
37.5°	1412.9
40°	1285.8
42.5°	1174.0
45°	1062.3
47.5°	945.3
50°	828.4
52.5°	711.6
55°	594.6
57.5°	487.9
60°	386.2
62.5°	294.7
65°	208.4
67.5°	137.2
70°	81.3
72.5°	35.5
75°	10.2
77.5°	5.0
80°	5.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)