

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: P839310

Luminaire Tested: **LD4C45D010 EU4459050 4LBSLI**

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P839310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459050 4LBSLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

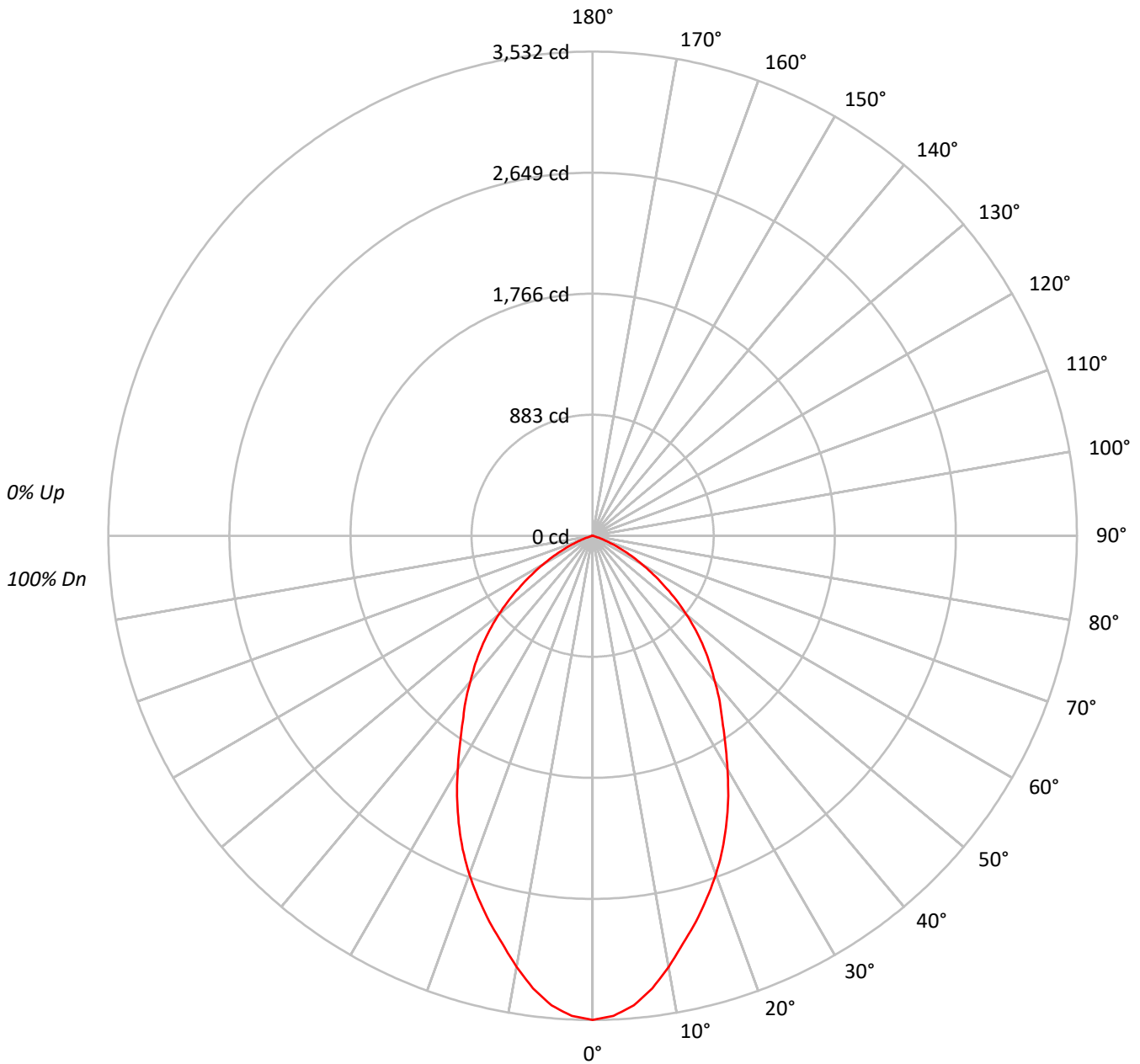
Lumens per Lamp: N/A
Luminaire Lumens: 4947.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P839310

CATALOG NUMBER: LD4C45D010 EU4459050 4LBSLI

Luminous Intensity Polar Plot





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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	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°	433955
5°	424132
10°	398285
15°	370547
20°	343671
25°	313278
30°	278909
35°	247221
40°	222198
45°	198864
50°	170599
55°	137231
60°	102263
65°	65290
70°	31466
75°	5221
80°	3820
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.3	6.5
10°-20°	816.9	16.5
20°-30°	1058.5	21.4
30°-40°	1037.1	21.0
40°-50°	879.1	17.8
50°-60°	576.2	11.6
60°-70°	231.7	4.7
70°-80°	26.5	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°	2195.6	44.4
0°-40°	3232.8	65.3
0°-60°	4688.1	94.8
0°-90°	4947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4947.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3532	
5°	3439	320
15°	2913	817
25°	2311	1059
35°	1648	1037
45°	1145	879
55°	641	576
65°	225	232
75°	11	26
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3532.3
2.5°	3504.9
5°	3439.2
7.5°	3329.6
10°	3192.7
12.5°	3044.9
15°	2913.4
17.5°	2771.1
20°	2628.7
22.5°	2475.4
25°	2311.1
27.5°	2141.3
30°	1966.1
32.5°	1801.8
35°	1648.4
37.5°	1522.5
40°	1385.5
42.5°	1265.1
45°	1144.6
47.5°	1018.6
50°	892.6
52.5°	766.7
55°	640.7
57.5°	525.7
60°	416.2
62.5°	317.6
65°	224.6
67.5°	147.9
70°	87.6
72.5°	38.3
75°	11.0
77.5°	5.4
80°	5.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)