

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: P840063

Luminaire Tested: **LDS4C45D010 EU4459030 4LBSLI**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P840063
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 EU4459030 4LBSLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

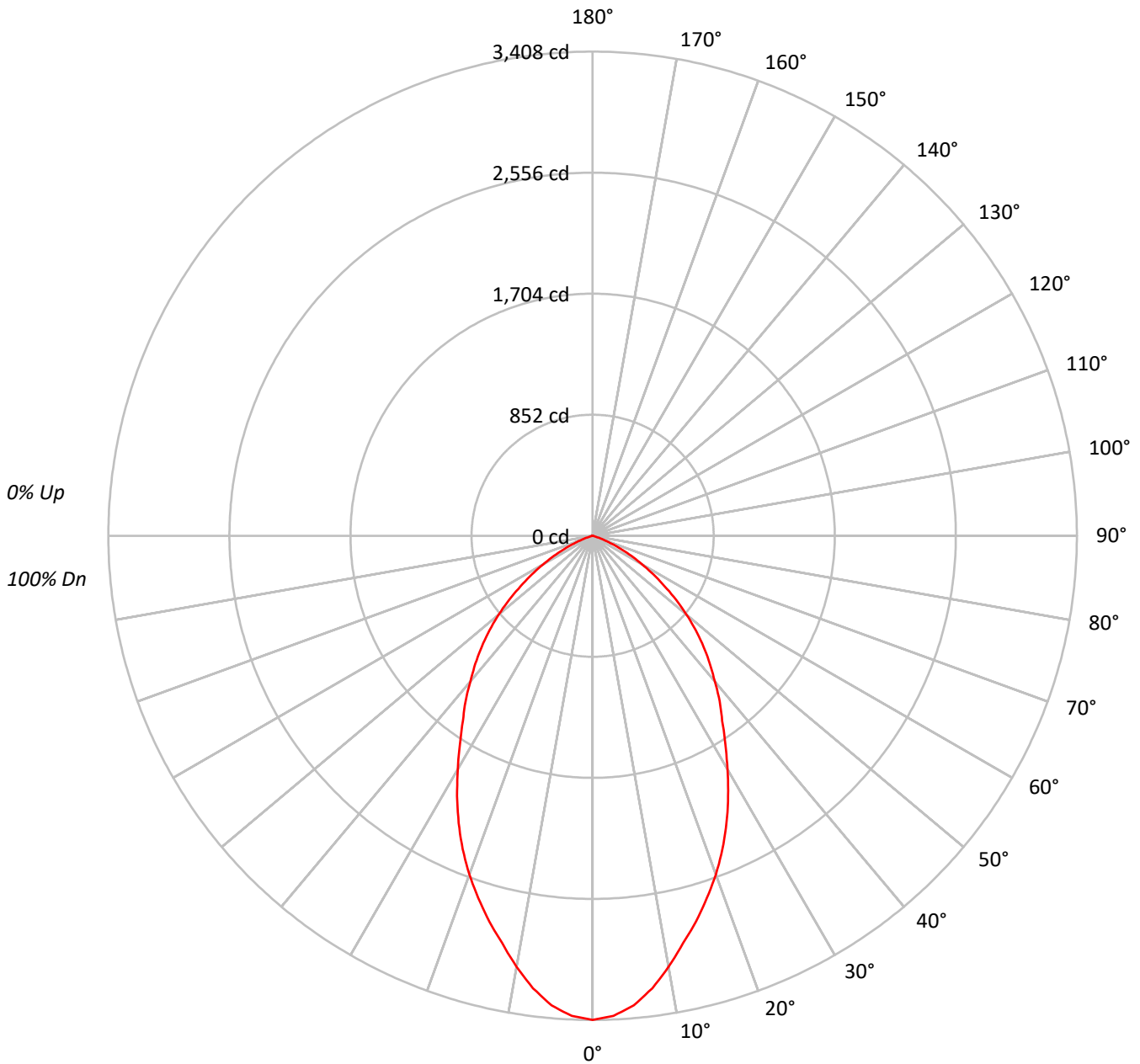
Lumens per Lamp: N/A
Luminaire Lumens: 4772.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	418697
5°	409210
10°	384276
15°	357523
20°	331578
25°	302258
30°	269092
35°	238522
40°	214388
45°	191880
50°	164598
55°	132411
60°	98651
65°	62994
70°	30352
75°	5031
80°	3679
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	6.5
10°-20°	788.1	16.5
20°-30°	1021.3	21.4
30°-40°	1000.7	21.0
40°-50°	848.2	17.8
50°-60°	556.0	11.6
60°-70°	223.5	4.7
70°-80°	25.5	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°	2118.4	44.4
0°-40°	3119.1	65.3
0°-60°	4523.2	94.8
0°-90°	4772.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4772.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3408	
5°	3318	309
15°	2811	788
25°	2230	1021
35°	1590	1001
45°	1104	848
55°	618	556
65°	217	223
75°	11	26
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3408.1
2.5°	3381.6
5°	3318.2
7.5°	3212.5
10°	3080.4
12.5°	2937.8
15°	2811.0
17.5°	2673.7
20°	2536.2
22.5°	2388.3
25°	2229.8
27.5°	2065.9
30°	1896.9
32.5°	1738.4
35°	1590.4
37.5°	1469.0
40°	1336.8
42.5°	1220.6
45°	1104.4
47.5°	982.8
50°	861.2
52.5°	739.8
55°	618.2
57.5°	507.2
60°	401.5
62.5°	306.4
65°	216.7
67.5°	142.7
70°	84.5
72.5°	36.9
75°	10.6
77.5°	5.2
80°	5.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)