

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: P840050

Luminaire Tested: **LDS4C45D010 EU4459027 4LBSB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C45D010 EU4459027 4LBSB  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH B FINISH  
Light Source: -  
Ballast/Driver: -

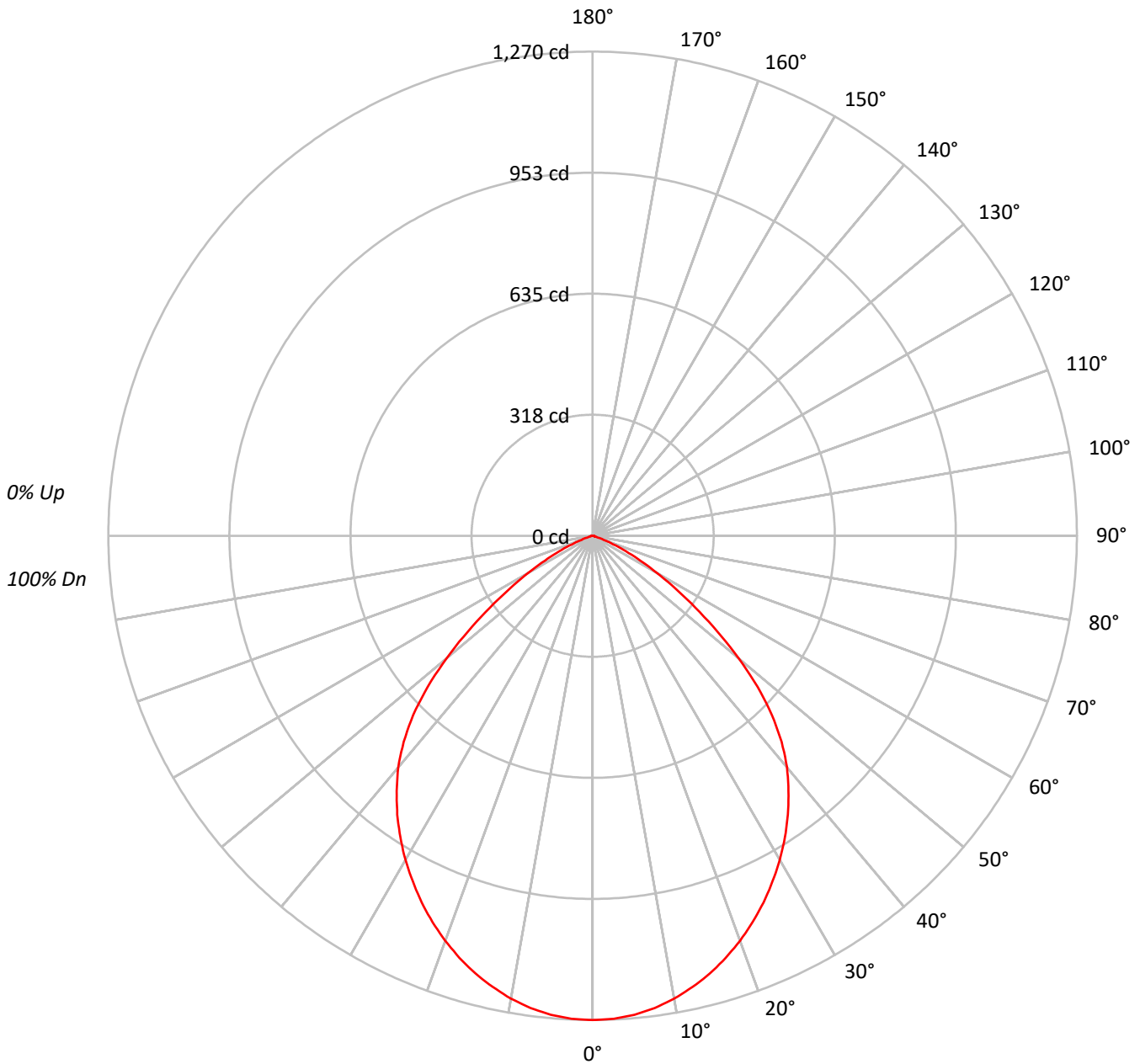
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2419.0 lumens  
Efficiency: N/A  
Efficacy: 48.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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				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	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	156048
5°	155510
10°	153803
15°	151162
20°	147773
25°	143823
30°	139291
35°	133929
40°	127176
45°	115625
50°	95448
55°	70297
60°	47716
65°	27936
70°	11027
75°	2468
80°	3254
85°	5497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.5	4.9
10°-20°	334.7	13.8
20°-30°	488.1	20.2
30°-40°	557.2	23.0
40°-50°	506.5	20.9
50°-60°	298.7	12.3
60°-70°	100.2	4.1
70°-80°	10.5	0.4
80°-90°	3.7	0.2
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°	942.3	39.0
0°-40°	1499.4	62.0
0°-60°	2304.7	95.3
0°-90°	2419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2419.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1270	
5°	1261	119
15°	1188	335
25°	1061	488
35°	893	557
45°	666	507
55°	328	299
65°	96	100
75°	5	10
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1270.2
2.5°	1268.2
5°	1261.0
7.5°	1249.3
10°	1232.9
12.5°	1212.0
15°	1188.5
17.5°	1161.0
20°	1130.3
22.5°	1096.9
25°	1061.0
27.5°	1021.8
30°	981.9
32.5°	938.1
35°	893.0
37.5°	843.9
40°	793.0
42.5°	733.5
45°	665.5
47.5°	587.0
50°	499.4
52.5°	411.8
55°	328.2
57.5°	256.9
60°	194.2
62.5°	140.5
65°	96.1
67.5°	58.8
70°	30.7
72.5°	11.8
75°	5.2
77.5°	5.2
80°	4.6
82.5°	3.9
85°	3.9
87.5°	3.3
90°	0.0



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— 0°-180°







(END OF REPORT)