

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: P840072

Luminaire Tested: **LDS4C45D010 EU4459035 4LBSH**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P840072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C45D010 EU4459035 4LBSH  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

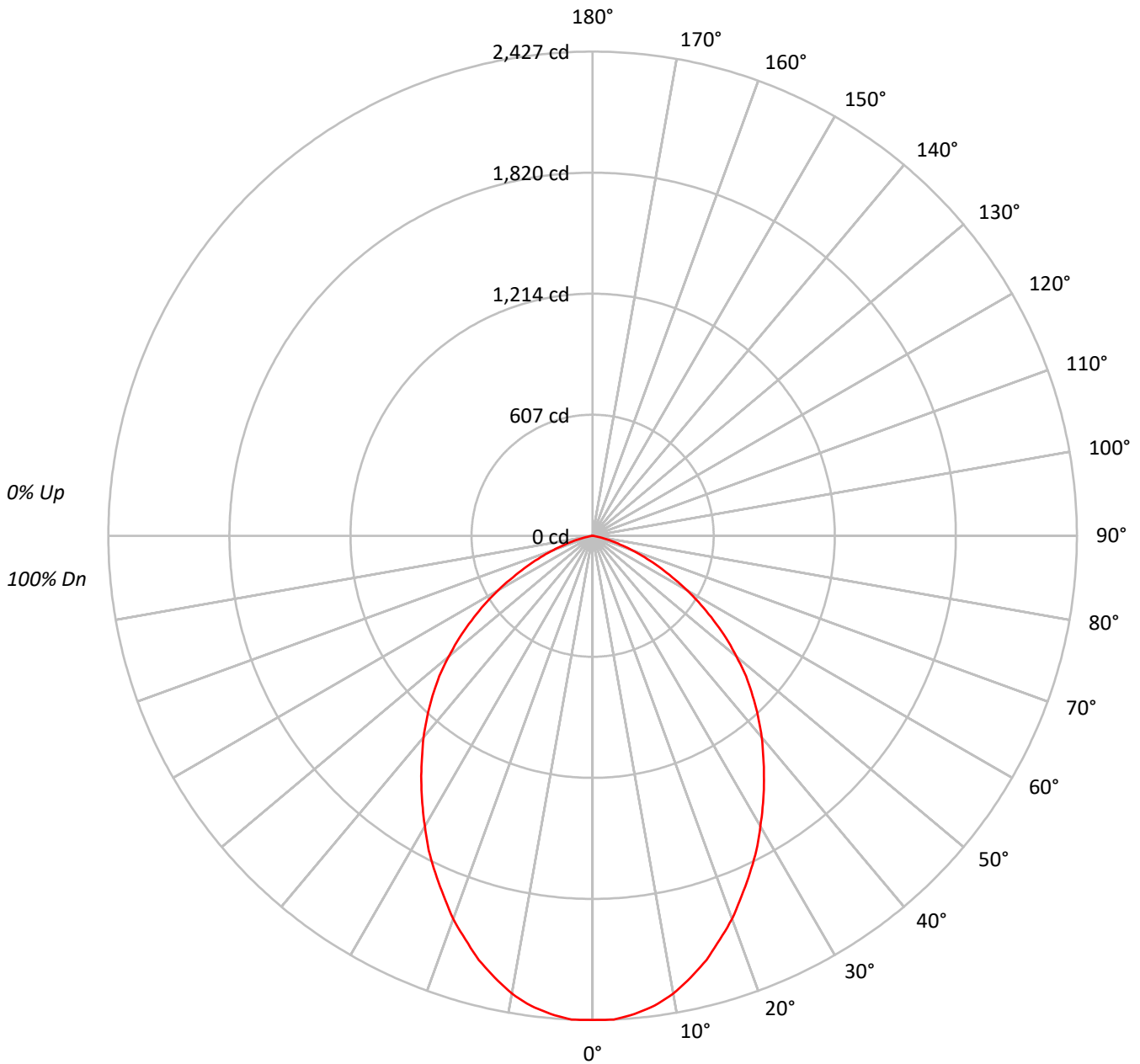
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4641.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
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									
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77																			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31																			

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

	0°
0°	298190
5°	296813
10°	290689
15°	280117
20°	267228
25°	252821
30°	238479
35°	224545
40°	211421
45°	197092
50°	179716
55°	158714
60°	134353
65°	105465
70°	75288
75°	41249
80°	7287
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.4	4.9
10°-20°	618.0	13.3
20°-30°	858.2	18.5
30°-40°	936.5	20.2
40°-50°	873.6	18.8
50°-60°	663.1	14.3
60°-70°	363.1	7.8
70°-80°	99.9	2.2
80°-90°	1.4	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°	1703.5	36.7
0°-40°	2640.0	56.9
0°-60°	4176.6	90.0
0°-90°	4641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4641.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2427	
5°	2407	227
15°	2202	618
25°	1865	858
35°	1497	936
45°	1134	874
55°	741	663
65°	363	363
75°	87	100
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2427.2
2.5°	2427.2
5°	2406.8
7.5°	2376.2
10°	2330.2
12.5°	2268.9
15°	2202.4
17.5°	2120.7
20°	2044.0
22.5°	1952.0
25°	1865.1
27.5°	1778.3
30°	1681.1
32.5°	1589.2
35°	1497.2
37.5°	1405.2
40°	1318.3
42.5°	1226.4
45°	1134.4
47.5°	1042.4
50°	940.3
52.5°	843.1
55°	741.0
57.5°	643.8
60°	546.8
62.5°	449.7
65°	362.8
67.5°	281.0
70°	209.6
72.5°	143.1
75°	86.9
77.5°	40.9
80°	10.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)