

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: P840066

Luminaire Tested: **LDS4C45D010 EU4459035 4LBCSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840066  
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 EU4459035 4LBCSMB  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBCS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

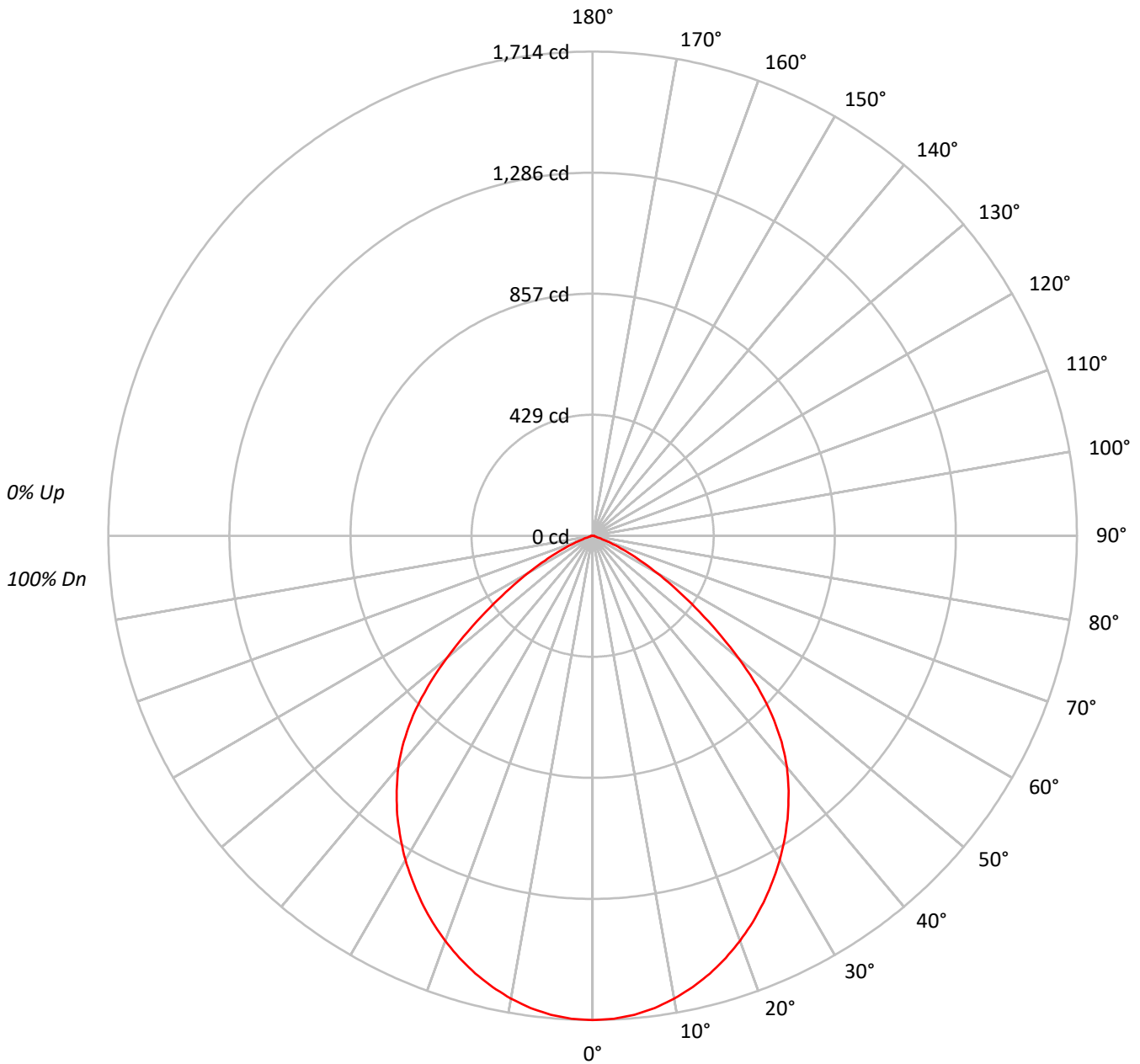
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3265.1 lumens  
Efficiency: N/A  
Efficacy: 65.8 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	65	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°	210620
5°	209895
10°	207594
15°	204021
20°	199454
25°	194113
30°	188006
35°	180767
40°	171648
45°	156054
50°	128838
55°	94864
60°	64400
65°	37703
70°	14907
75°	3370
80°	4386
85°	7471



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	4.9
10°-20°	451.7	13.8
20°-30°	658.8	20.2
30°-40°	752.0	23.0
40°-50°	683.7	20.9
50°-60°	403.2	12.4
60°-70°	135.2	4.1
70°-80°	14.2	0.4
80°-90°	4.9	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°	1271.8	39.0
0°-40°	2023.8	62.0
0°-60°	3110.7	95.3
0°-90°	3265.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3265.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1714	
5°	1702	161
15°	1604	452
25°	1432	659
35°	1205	752
45°	898	684
55°	443	403
65°	130	135
75°	7	14
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1714.4
2.5°	1711.7
5°	1702.0
7.5°	1686.2
10°	1664.1
12.5°	1635.9
15°	1604.1
17.5°	1567.0
20°	1525.6
22.5°	1480.6
25°	1432.0
27.5°	1379.1
30°	1325.3
32.5°	1266.2
35°	1205.3
37.5°	1139.1
40°	1070.3
42.5°	990.0
45°	898.2
47.5°	792.3
50°	674.1
52.5°	555.9
55°	442.9
57.5°	346.8
60°	262.1
62.5°	189.7
65°	129.7
67.5°	79.4
70°	41.5
72.5°	15.9
75°	7.1
77.5°	7.1
80°	6.2
82.5°	5.3
85°	5.3
87.5°	4.4
90°	0.0



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— 0°-180°







(END OF REPORT)