

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: P840058

Luminaire Tested: **LDS4C45D010 EU4459030 4LBPSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840058  
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 EU4459030 4LBPSMB  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

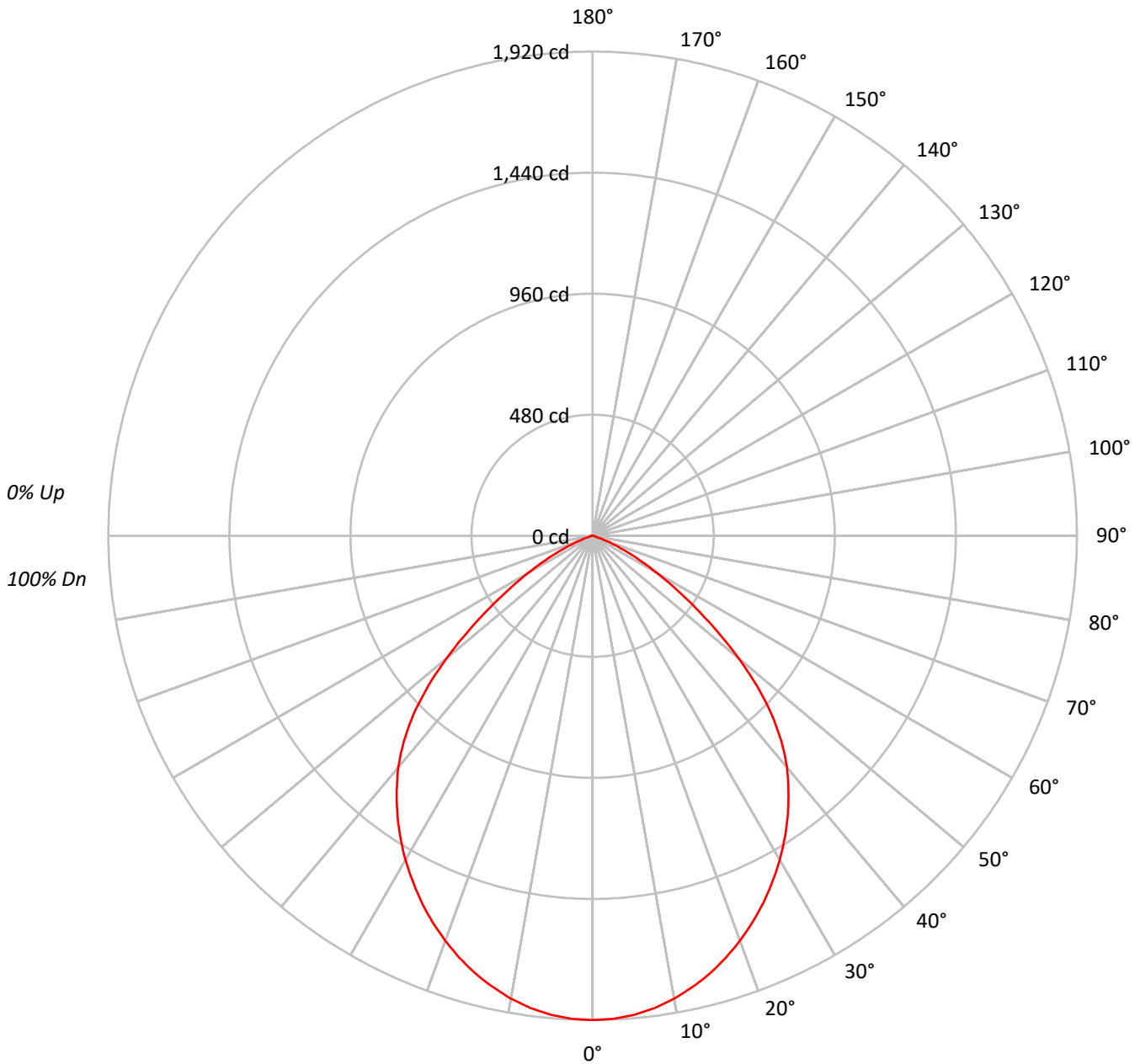
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3657.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 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°	235903
5°	235103
10°	232519
15°	228517
20°	223392
25°	217428
30°	210575
35°	202468
40°	192256
45°	174801
50°	144300
55°	106259
60°	72115
65°	42238
70°	16667
75°	3750
80°	4882
85°	8317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	4.9
10°-20°	505.9	13.8
20°-30°	737.9	20.2
30°-40°	842.3	23.0
40°-50°	765.8	20.9
50°-60°	451.6	12.3
60°-70°	151.5	4.1
70°-80°	15.8	0.4
80°-90°	5.5	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°	1424.5	39.0
0°-40°	2266.8	62.0
0°-60°	3484.2	95.3
0°-90°	3657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1920	
5°	1906	181
15°	1797	506
25°	1604	738
35°	1350	842
45°	1006	766
55°	496	452
65°	145	151
75°	8	16
85°	6	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1920.2
2.5°	1917.3
5°	1906.4
7.5°	1888.6
10°	1863.9
12.5°	1832.3
15°	1796.7
17.5°	1755.2
20°	1708.7
22.5°	1658.3
25°	1604.0
27.5°	1544.7
30°	1484.4
32.5°	1418.2
35°	1350.0
37.5°	1275.9
40°	1198.8
42.5°	1108.8
45°	1006.1
47.5°	887.5
50°	755.0
52.5°	622.6
55°	496.1
57.5°	388.4
60°	293.5
62.5°	212.5
65°	145.3
67.5°	88.9
70°	46.4
72.5°	17.8
75°	7.9
77.5°	7.9
80°	6.9
82.5°	5.9
85°	5.9
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)