

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: P840382

Luminaire Tested: **LDS4C45D010 EU4459035 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840382  
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 4LBPSSQMB  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

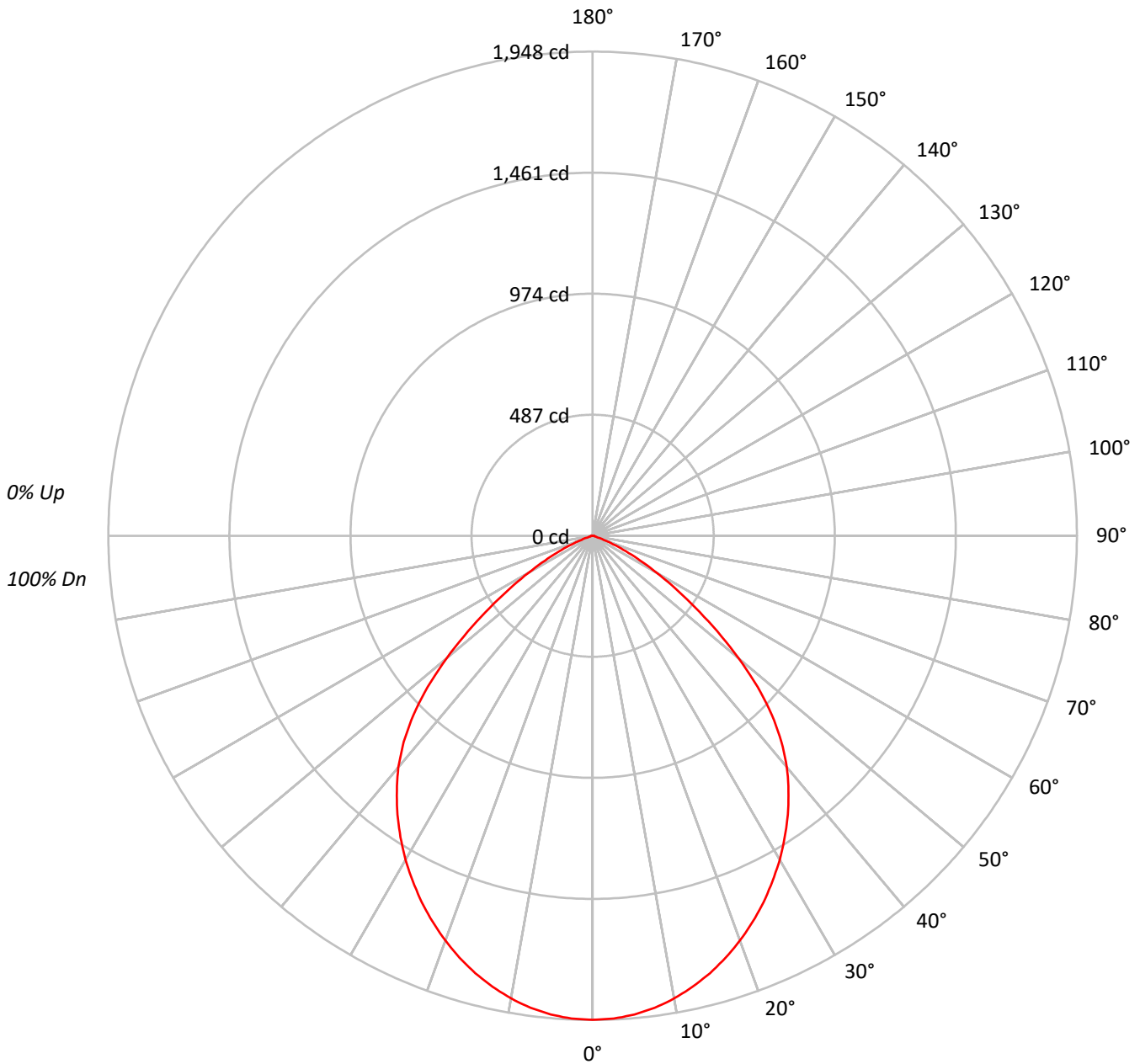
Lumens per Lamp: N/A  
Luminaire Lumens: 3708.9 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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°	187912
5°	187274
10°	185216
15°	182024
20°	177947
25°	173195
30°	167736
35°	161280
40°	153139
45°	139240
50°	114954
55°	84650
60°	57449
65°	33630
70°	13288
75°	2982
80°	3890
85°	6643



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	4.9
10°-20°	513.1	13.8
20°-30°	748.4	20.2
30°-40°	854.3	23.0
40°-50°	776.7	20.9
50°-60°	458.1	12.4
60°-70°	153.6	4.1
70°-80°	16.0	0.4
80°-90°	5.6	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°	1444.7	39.0
0°-40°	2299.0	62.0
0°-60°	3533.7	95.3
0°-90°	3708.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1948	
5°	1934	183
15°	1822	513
25°	1627	748
35°	1369	854
45°	1020	777
55°	503	458
65°	147	154
75°	8	16
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1947.5
2.5°	1944.5
5°	1933.5
7.5°	1915.5
10°	1890.4
12.5°	1858.3
15°	1822.2
17.5°	1780.1
20°	1733.0
22.5°	1681.9
25°	1626.8
27.5°	1566.6
30°	1505.5
32.5°	1438.3
35°	1369.2
37.5°	1294.0
40°	1215.8
42.5°	1124.6
45°	1020.4
47.5°	900.1
50°	765.8
52.5°	631.5
55°	503.2
57.5°	393.9
60°	297.7
62.5°	215.5
65°	147.3
67.5°	90.2
70°	47.1
72.5°	18.0
75°	8.0
77.5°	8.0
80°	7.0
82.5°	6.0
85°	6.0
87.5°	5.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)