

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: P840381

Luminaire Tested: **LDS4C45D010 EU4459030 4LBPSSQMMS**

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: P840381
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 4LBPSSQMMS
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

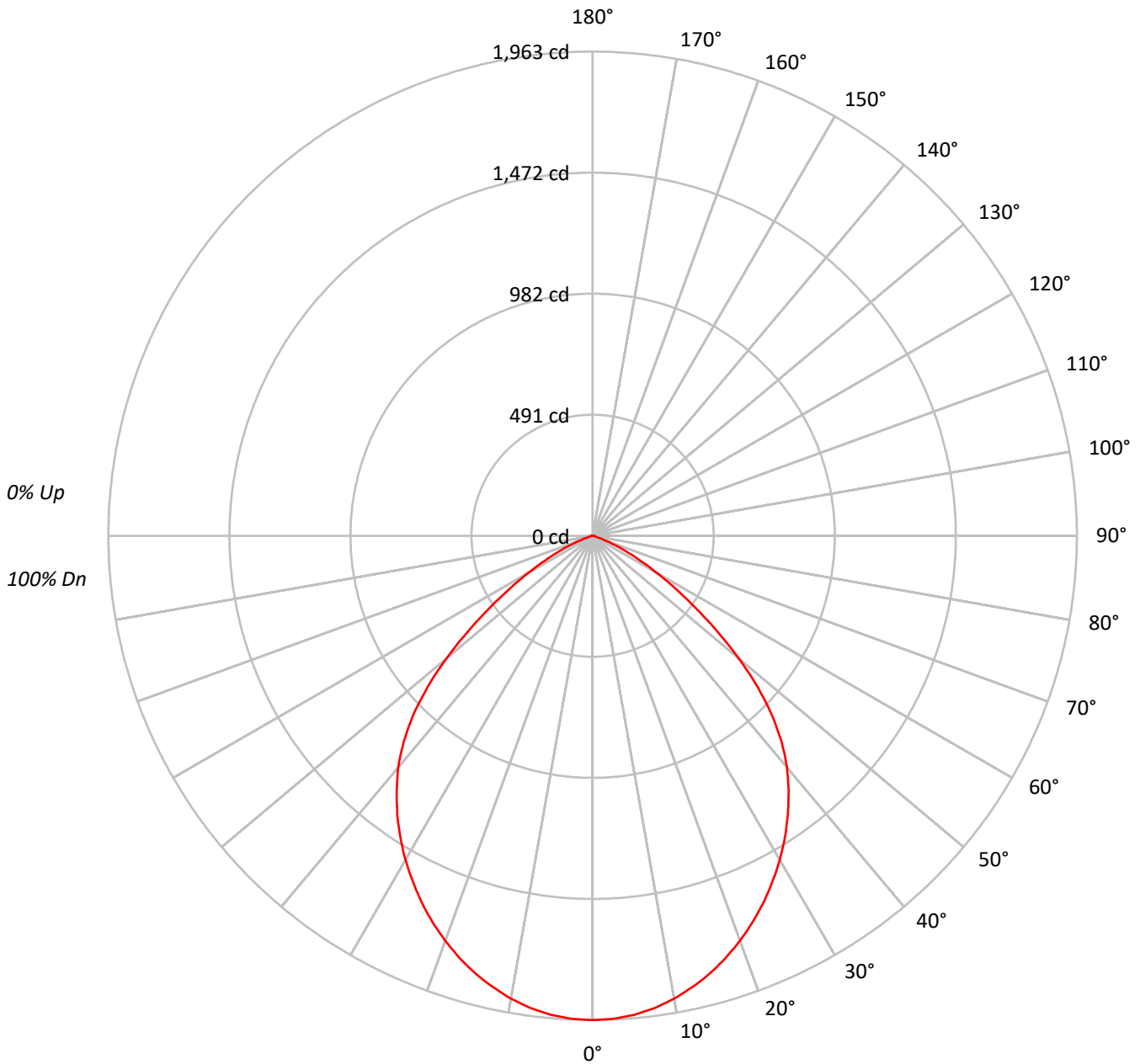
Lumens per Lamp: N/A
Luminaire Lumens: 3739.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{in}): 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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	189437
5°	188785
10°	186716
15°	183503
20°	179384
25°	174590
30°	169096
35°	162587
40°	154386
45°	140359
50°	115885
55°	85323
60°	57913
65°	33904
70°	13400
75°	3020
80°	3945
85°	6753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	4.9
10°-20°	517.3	13.8
20°-30°	754.5	20.2
30°-40°	861.2	23.0
40°-50°	782.9	20.9
50°-60°	461.8	12.3
60°-70°	154.8	4.1
70°-80°	16.2	0.4
80°-90°	5.7	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°	1456.4	39.0
0°-40°	2317.6	62.0
0°-60°	3562.3	95.3
0°-90°	3739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1963	
5°	1949	185
15°	1837	517
25°	1640	754
35°	1380	861
45°	1029	783
55°	507	462
65°	148	155
75°	8	16
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1963.3
2.5°	1960.2
5°	1949.1
7.5°	1930.9
10°	1905.7
12.5°	1873.4
15°	1837.0
17.5°	1794.5
20°	1747.0
22.5°	1695.5
25°	1639.9
27.5°	1579.3
30°	1517.7
32.5°	1450.0
35°	1380.3
37.5°	1304.5
40°	1225.7
42.5°	1133.7
45°	1028.6
47.5°	907.4
50°	772.0
52.5°	636.6
55°	507.2
57.5°	397.1
60°	300.1
62.5°	217.2
65°	148.5
67.5°	90.9
70°	47.5
72.5°	18.2
75°	8.1
77.5°	8.1
80°	7.1
82.5°	6.1
85°	6.1
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)