

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: P840079

Luminaire Tested: **LDS4C45D010 EU4459040 4LBPSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840079
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 EU4459040 4LBPSMMS
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

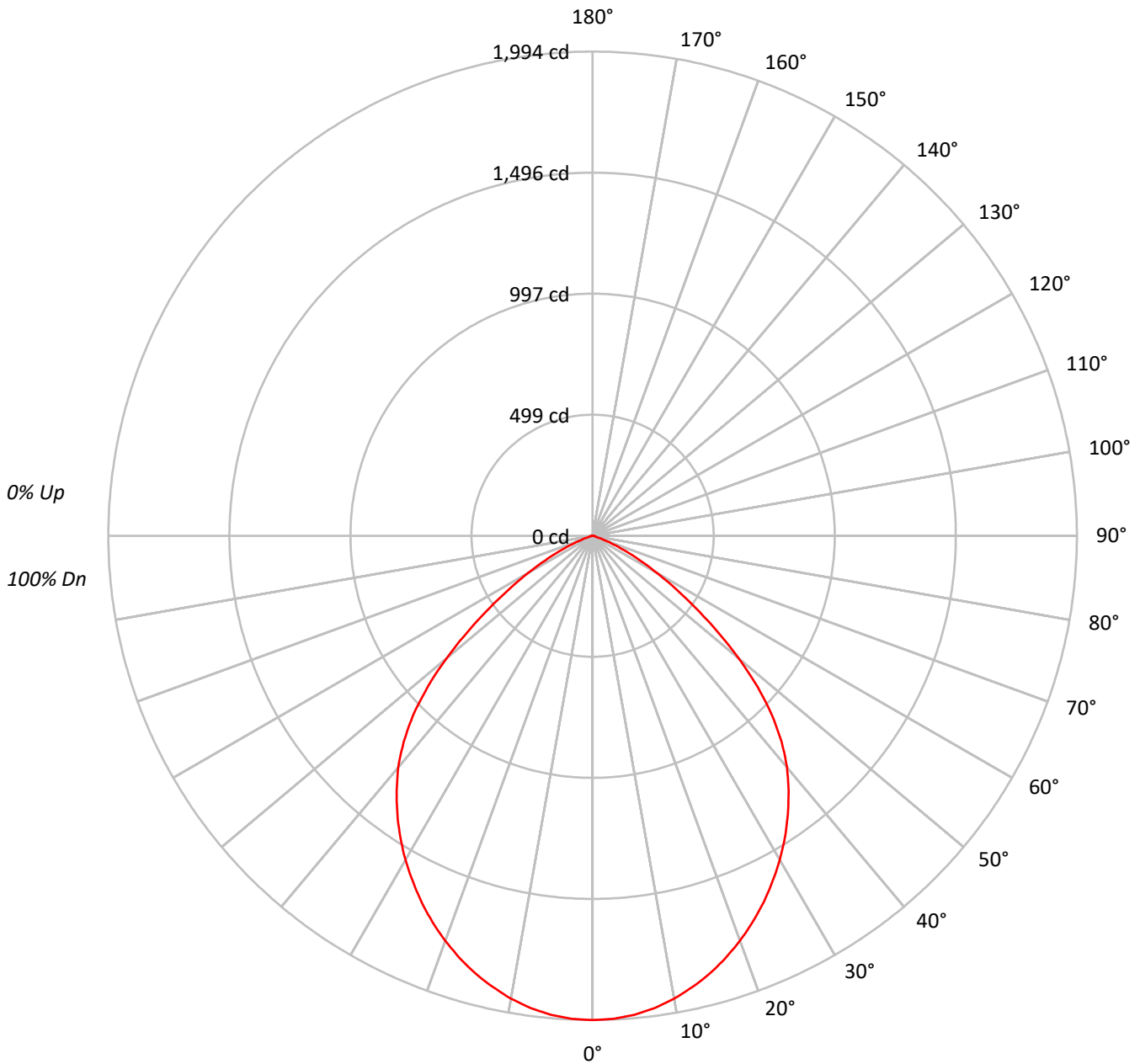
Lumens per Lamp: N/A
Luminaire Lumens: 3798.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{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°	245007
5°	244167
10°	241489
15°	237331
20°	232008
25°	225806
30°	218690
35°	210267
40°	199665
45°	181542
50°	149881
55°	110350
60°	74891
65°	43866
70°	17313
75°	3892
80°	5094
85°	8739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	4.9
10°-20°	525.4	13.8
20°-30°	766.4	20.2
30°-40°	874.8	23.0
40°-50°	795.3	20.9
50°-60°	469.0	12.3
60°-70°	157.3	4.1
70°-80°	16.4	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°	1479.4	39.0
0°-40°	2354.2	62.0
0°-60°	3618.5	95.3
0°-90°	3798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1994	
5°	1980	188
15°	1866	525
25°	1666	766
35°	1402	875
45°	1045	795
55°	515	469
65°	151	157
75°	8	16
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1994.3
2.5°	1991.2
5°	1979.9
7.5°	1961.4
10°	1935.8
12.5°	1902.9
15°	1866.0
17.5°	1822.9
20°	1774.6
22.5°	1722.3
25°	1665.8
27.5°	1604.2
30°	1541.6
32.5°	1472.9
35°	1402.0
37.5°	1325.1
40°	1245.0
42.5°	1151.6
45°	1044.9
47.5°	921.7
50°	784.2
52.5°	646.6
55°	515.2
57.5°	403.4
60°	304.8
62.5°	220.7
65°	150.9
67.5°	92.4
70°	48.2
72.5°	18.5
75°	8.2
77.5°	8.2
80°	7.2
82.5°	6.2
85°	6.2
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)