

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: P840384

Luminaire Tested: **LDS4C45D010 EU4459040 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: P840384
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 4LBPSSQMB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

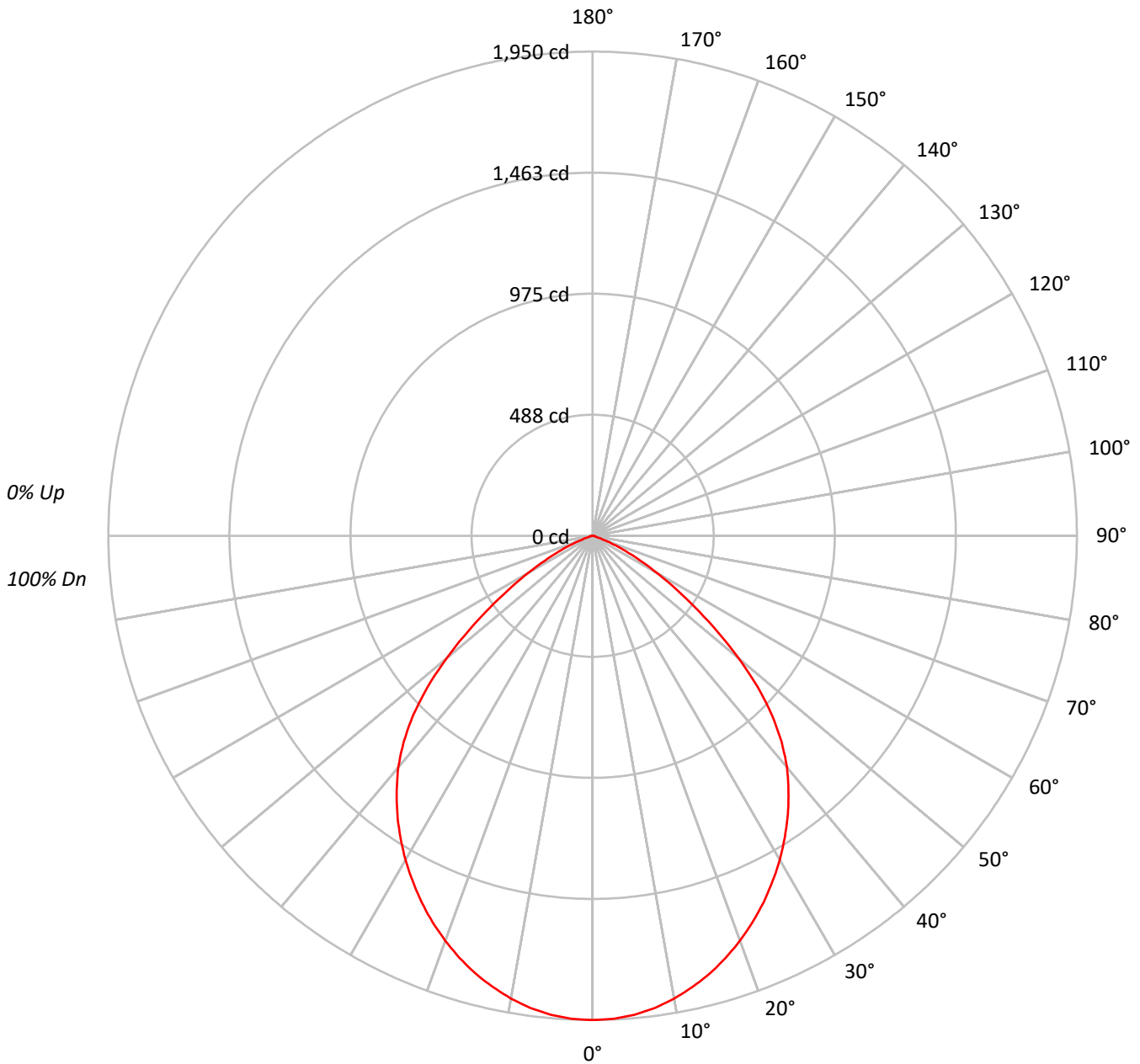
Lumens per Lamp: N/A
Luminaire Lumens: 3713.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188173
5°	187526
10°	185461
15°	182274
20°	178193
25°	173429
30°	167959
35°	161492
40°	153353
45°	139417
50°	115104
55°	84751
60°	57527
65°	33676
70°	13316
75°	2982
80°	3890
85°	6643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	4.9
10°-20°	513.8	13.8
20°-30°	749.5	20.2
30°-40°	855.5	23.0
40°-50°	777.7	20.9
50°-60°	458.7	12.3
60°-70°	153.8	4.1
70°-80°	16.1	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°	1446.7	39.0
0°-40°	2302.1	62.0
0°-60°	3538.5	95.3
0°-90°	3713.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1950	
5°	1936	183
15°	1825	514
25°	1629	749
35°	1371	855
45°	1022	778
55°	504	459
65°	148	154
75°	8	16
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1950.2
2.5°	1947.1
5°	1936.1
7.5°	1918.0
10°	1892.9
12.5°	1860.8
15°	1824.7
17.5°	1782.5
20°	1735.4
22.5°	1684.2
25°	1629.0
27.5°	1568.8
30°	1507.5
32.5°	1440.3
35°	1371.0
37.5°	1295.8
40°	1217.5
42.5°	1126.1
45°	1021.7
47.5°	901.3
50°	766.8
52.5°	632.3
55°	503.8
57.5°	394.4
60°	298.1
62.5°	215.8
65°	147.5
67.5°	90.3
70°	47.2
72.5°	18.1
75°	8.0
77.5°	8.0
80°	7.0
82.5°	6.0
85°	6.0
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)