

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: P840380

Luminaire Tested: **LDS4C45D010 EU4459030 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: P840380
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 4LBPSSQMB
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

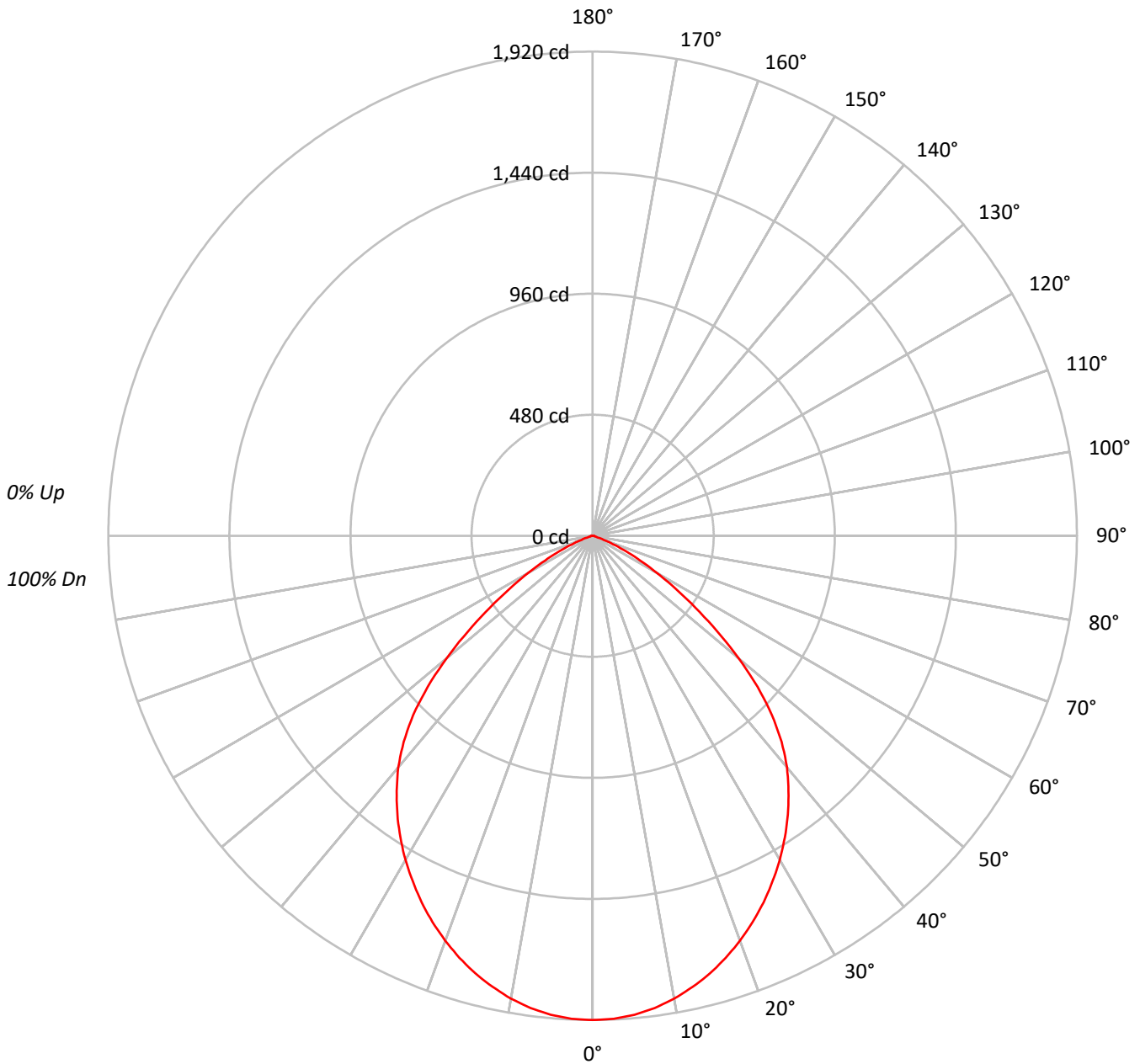
Lumens per Lamp: N/A
Luminaire Lumens: 3657.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (Ain): 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

TEST NUMBER: P840380

CATALOG NUMBER: LDS4C45D010 EU4459030 4LBPSSQMB

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	66	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°	185278
5°	184649
10°	182620
15°	179477
20°	175452
25°	170768
30°	165386
35°	159018
40°	150998
45°	137288
50°	113333
55°	83456
60°	56639
65°	33174
70°	13090
75°	2945
80°	3834
85°	6532



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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)