

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: P840085

Luminaire Tested: **LDS4C45D010 EU4459040 4LBSWMH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C45D010 EU4459040 4LBSWMH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

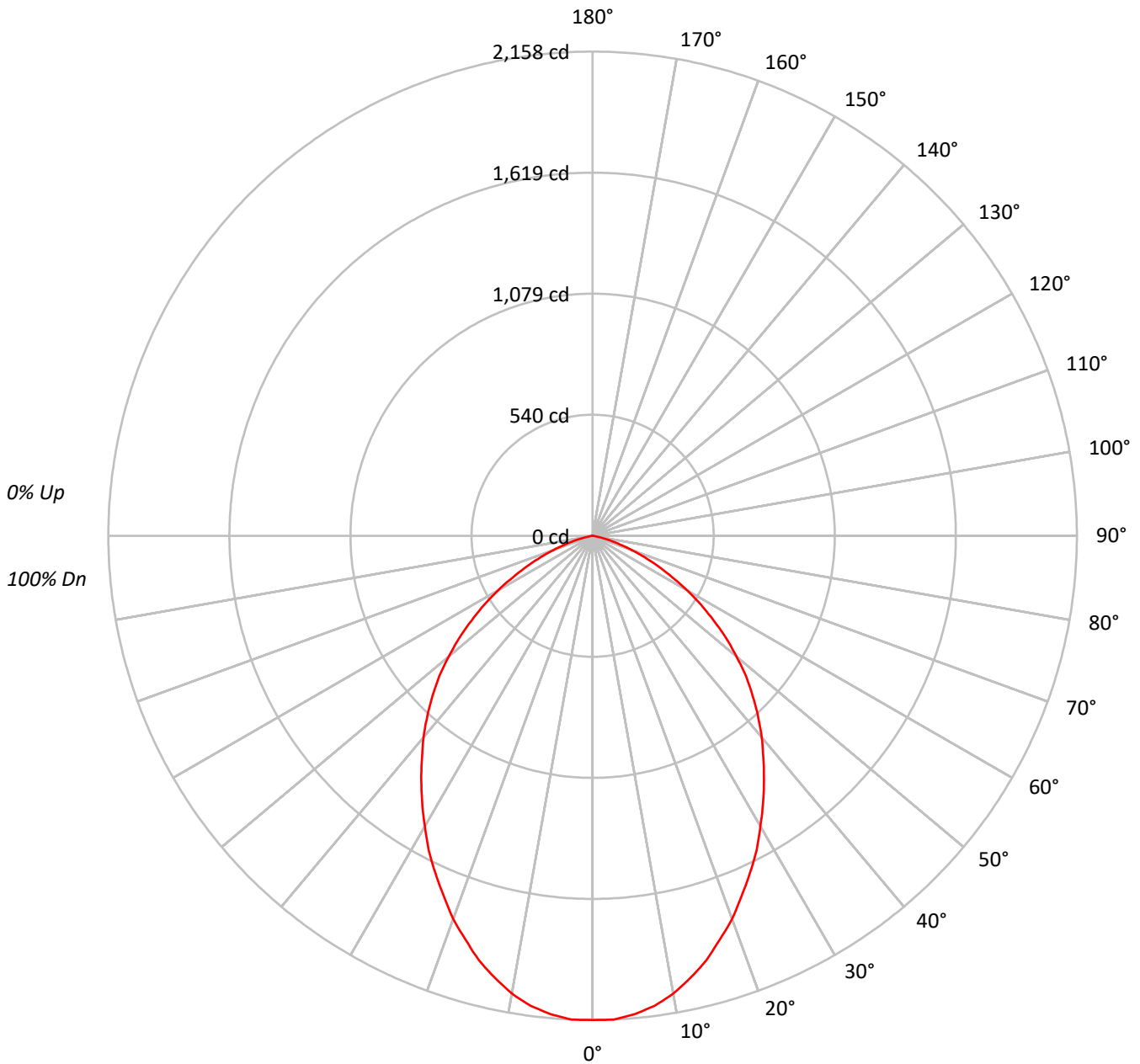
Lumens per Lamp: N/A
Luminaire Lumens: 4127.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265167
5°	263935
10°	258492
15°	249096
20°	237629
25°	224816
30°	212079
35°	199679
40°	188006
45°	175253
50°	159801
55°	141129
60°	119463
65°	93779
70°	66955
75°	36692
80°	6438
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	4.9
10°-20°	549.5	13.3
20°-30°	763.1	18.5
30°-40°	832.8	20.2
40°-50°	776.8	18.8
50°-60°	589.6	14.3
60°-70°	322.9	7.8
70°-80°	88.8	2.2
80°-90°	1.2	0.0
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°	1514.8	36.7
0°-40°	2347.6	56.9
0°-60°	3714.0	90.0
0°-90°	4127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2158	
5°	2140	202
15°	1958	550
25°	1658	763
35°	1331	833
45°	1009	777
55°	659	590
65°	323	323
75°	77	89
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2158.4
2.5°	2158.4
5°	2140.2
7.5°	2113.0
10°	2072.1
12.5°	2017.6
15°	1958.5
17.5°	1885.8
20°	1817.6
22.5°	1735.8
25°	1658.5
27.5°	1581.4
30°	1495.0
32.5°	1413.2
35°	1331.4
37.5°	1249.6
40°	1172.3
42.5°	1090.5
45°	1008.7
47.5°	927.0
50°	836.1
52.5°	749.7
55°	658.9
57.5°	572.5
60°	486.2
62.5°	399.9
65°	322.6
67.5°	249.9
70°	186.4
72.5°	127.2
75°	77.3
77.5°	36.3
80°	9.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)