

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: P839305

Luminaire Tested: **LD4C45D010 EU4459040 4LBPSMW**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459040 4LBPSMW
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

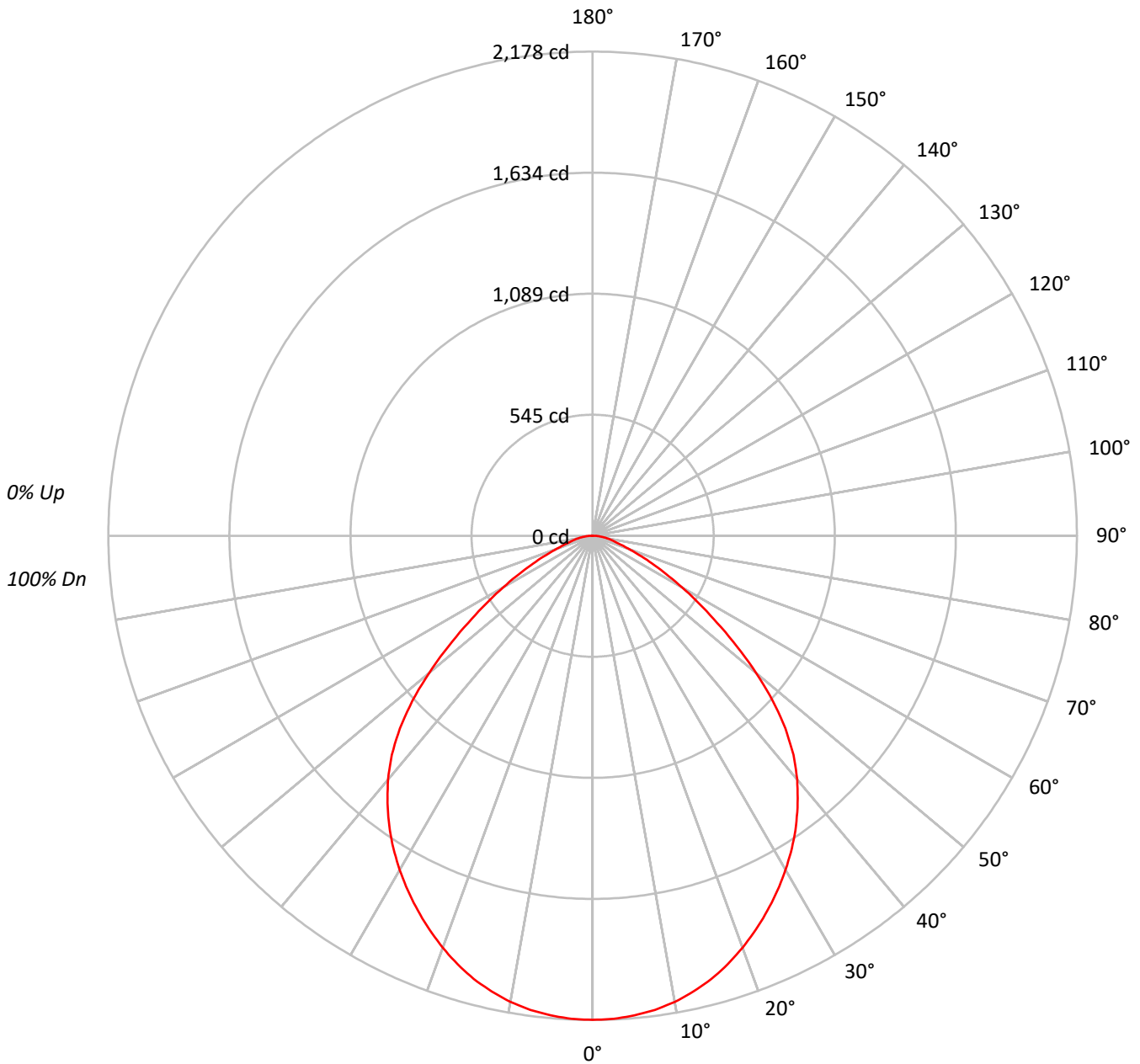
Lumens per Lamp: N/A
Luminaire Lumens: 4643.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
RC	80									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	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88																			
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51																			
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46																			
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41																			
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37																			
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33																			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	267513
5°	267080
10°	265627
15°	262553
20°	257789
25°	252198
30°	246196
35°	239167
40°	229543
45°	212937
50°	183443
55°	146334
60°	113934
65°	85290
70°	61890
75°	49081
80°	45987
85°	45812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	4.4
10°-20°	581.4	12.5
20°-30°	856.7	18.5
30°-40°	995.2	21.4
40°-50°	935.5	20.1
50°-60°	619.2	13.3
60°-70°	298.4	6.4
70°-80°	115.1	2.5
80°-90°	35.9	0.8
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°	1643.7	35.4
0°-40°	2638.9	56.8
0°-60°	4193.6	90.3
0°-90°	4643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4643.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2178	
5°	2166	206
15°	2064	581
25°	1860	857
35°	1595	995
45°	1226	935
55°	683	619
65°	293	298
75°	103	115
85°	32	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2177.5
2.5°	2175.5
5°	2165.7
7.5°	2150.9
10°	2129.3
12.5°	2099.7
15°	2064.3
17.5°	2021.0
20°	1971.8
22.5°	1917.6
25°	1860.5
27.5°	1799.5
30°	1735.5
32.5°	1667.6
35°	1594.7
37.5°	1515.0
40°	1431.3
42.5°	1336.8
45°	1225.6
47.5°	1099.6
50°	959.8
52.5°	818.0
55°	683.2
57.5°	567.0
60°	463.7
62.5°	371.1
65°	293.4
67.5°	227.4
70°	172.3
72.5°	130.9
75°	103.4
77.5°	83.7
80°	65.0
82.5°	48.2
85°	32.5
87.5°	18.7
90°	0.0



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— 0°-180°







(END OF REPORT)