

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: P840075

Luminaire Tested: **LDS4C45D010 EU4459035 4LBSWMH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840075
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 EU4459035 4LBSWMH
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

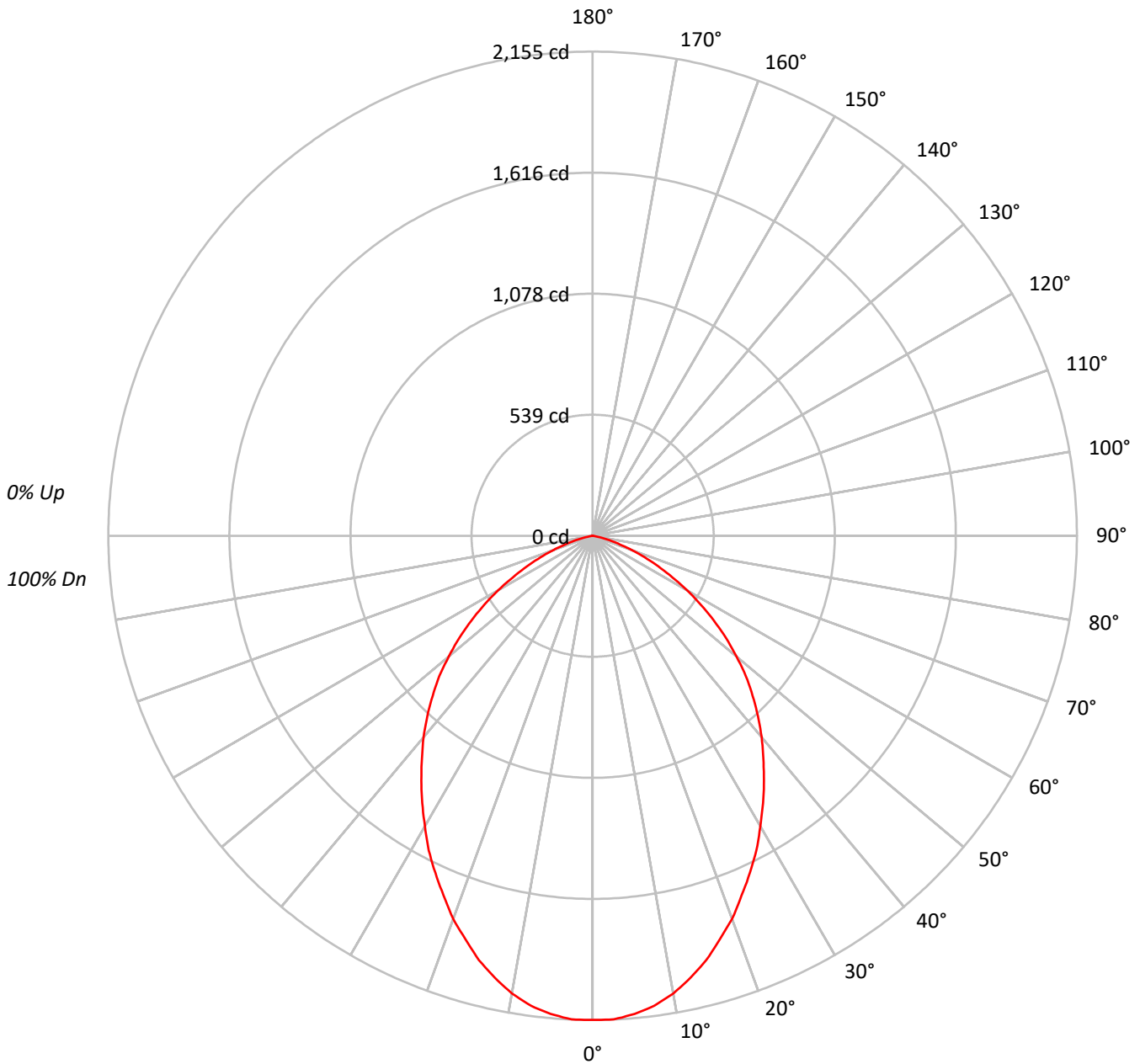
Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	264712
5°	263491
10°	258055
15°	248677
20°	237224
25°	224436
30°	211710
35°	199334
40°	187685
45°	174957
50°	159533
55°	140893
60°	119266
65°	93633
70°	66811
75°	36597
80°	6438
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	4.9
10°-20°	548.6	13.3
20°-30°	761.8	18.5
30°-40°	831.3	20.2
40°-50°	775.5	18.8
50°-60°	588.6	14.3
60°-70°	322.3	7.8
70°-80°	88.7	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°	1512.3	36.7
0°-40°	2343.6	56.9
0°-60°	3707.7	90.0
0°-90°	4120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2155	
5°	2137	202
15°	1955	549
25°	1656	762
35°	1329	831
45°	1007	776
55°	658	589
65°	322	322
75°	77	89
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2154.7
2.5°	2154.7
5°	2136.6
7.5°	2109.5
10°	2068.6
12.5°	2014.2
15°	1955.2
17.5°	1882.6
20°	1814.5
22.5°	1732.9
25°	1655.7
27.5°	1578.7
30°	1492.4
32.5°	1410.8
35°	1329.1
37.5°	1247.5
40°	1170.3
42.5°	1088.7
45°	1007.0
47.5°	925.4
50°	834.7
52.5°	748.5
55°	657.8
57.5°	571.5
60°	485.4
62.5°	399.2
65°	322.1
67.5°	249.5
70°	186.0
72.5°	127.0
75°	77.1
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)