

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: P856687

Luminaire Tested: **LD4C10D010 EU4109027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C10D010 EU4109027 4LBMDSWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

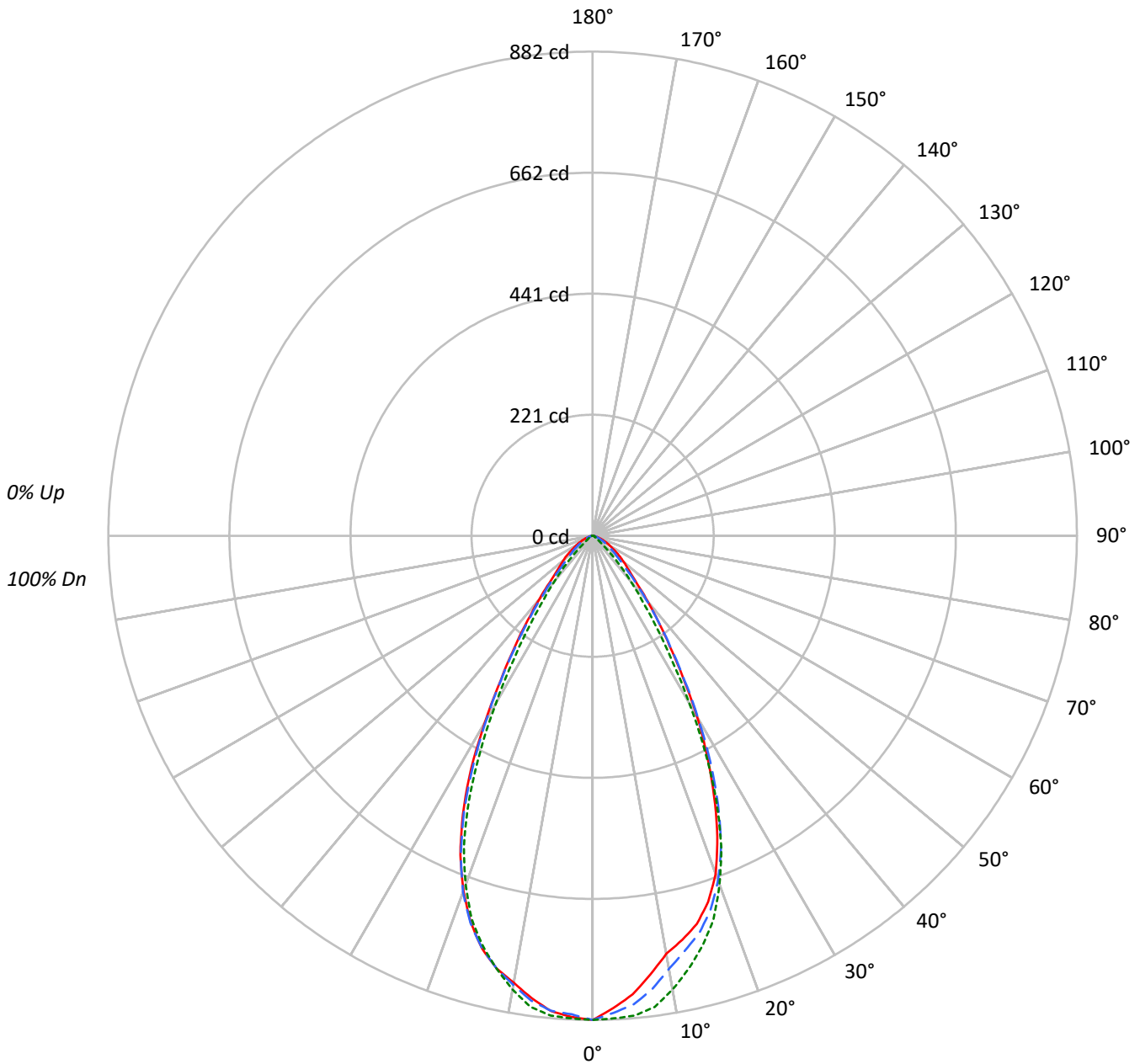
Lumens per Lamp: N/A
Luminaire Lumens: 803.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
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	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	108369	108369	108369
5°	103406	108191	107180
10°	96443	104689	103155
15°	93127	98328	99015
20°	85673	88340	89948
25°	71003	72291	75802
30°	54020	49963	55566
35°	36579	29935	36984
40°	24906	17144	24136
45°	17270	8635	16332
50°	14067	3517	13149
55°	11373	2185	10367
60°	9042	1671	8207
65°	7122	1395	6337
70°	5388	1221	4885
75°	3892	949	3560
80°	2901	990	2405
85°	1973	987	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	10.1
10°-20°	213.1	26.5
20°-30°	244.5	30.4
30°-40°	148.5	18.5
40°-50°	63.6	7.9
50°-60°	30.5	3.8
60°-70°	14.8	1.8
70°-80°	5.5	0.7
80°-90°	1.3	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°	538.7	67.1
0°-40°	687.2	85.6
0°-60°	781.4	97.3
0°-90°	803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	882	882	882	882	882	
5°	838	857	877	868	869	78
15°	732	749	773	778	778	204
25°	524	541	533	554	559	238
35°	244	247	200	241	247	156
45°	99	88	50	80	94	81
55°	53	40	10	35	48	48
65°	24	16	5	15	22	25
75°	8	5	2	5	8	9
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1
2.5°	861.0	870.5	869.8	878.0	880.0	878.0	872.5	878.0	877.3
5°	838.5	849.4	856.9	870.5	877.3	876.0	868.5	869.8	869.1
7.5°	805.8	819.4	832.4	852.8	865.7	865.1	854.2	852.1	849.4
10°	773.1	786.0	801.0	822.1	839.2	841.9	831.0	828.3	826.9
12.5°	754.0	764.2	774.5	792.9	807.8	813.3	807.2	807.8	807.2
15°	732.2	742.4	749.3	762.9	773.1	780.6	777.9	782.0	778.5
17.5°	699.5	711.8	714.5	724.7	732.2	737.0	739.7	743.8	738.4
20°	655.3	664.8	668.2	672.3	675.7	681.8	690.0	694.1	688.0
22.5°	593.3	611.7	611.0	608.9	612.4	614.4	627.3	634.1	629.4
25°	523.8	542.9	540.8	532.7	533.3	537.4	553.8	562.6	559.2
27.5°	450.9	468.6	463.9	448.2	444.1	450.2	471.4	481.6	479.5
30°	380.8	392.3	384.8	356.9	352.2	359.6	386.9	397.1	391.7
32.5°	305.2	314.0	310.6	276.5	268.4	275.9	307.9	317.4	311.3
35°	243.9	252.0	247.3	207.1	199.6	207.7	241.1	252.0	246.6
37.5°	195.5	201.6	195.5	152.6	145.8	153.9	186.0	200.3	193.4
40°	155.3	160.1	151.9	112.4	106.9	111.0	141.0	155.3	150.5
42.5°	122.6	126.0	117.2	82.4	76.3	81.7	106.3	119.2	116.5
45°	99.4	99.4	88.5	57.2	49.7	55.2	79.7	93.3	94.0
47.5°	85.1	83.1	69.5	38.1	28.6	36.1	63.3	77.7	79.7
50°	73.6	70.8	57.2	27.9	18.4	25.9	52.4	66.8	68.8
52.5°	63.3	61.3	47.7	21.8	12.9	19.8	44.3	57.9	59.9
55°	53.1	51.8	39.5	17.0	10.2	15.0	35.4	47.0	48.4
57.5°	43.6	41.5	32.0	14.3	8.2	12.3	29.3	38.8	40.2
60°	36.8	34.7	25.9	11.6	6.8	9.5	23.8	32.0	33.4
62.5°	30.7	28.6	21.1	9.5	5.4	8.2	19.1	25.9	27.2
65°	24.5	23.2	16.3	7.5	4.8	6.1	15.0	20.4	21.8
67.5°	19.8	18.4	12.9	6.1	4.1	4.8	11.6	16.3	17.7
70°	15.0	13.6	9.5	4.8	3.4	4.1	8.9	12.3	13.6
72.5°	10.9	10.2	7.5	4.1	2.7	3.4	6.1	8.9	10.2
75°	8.2	7.5	5.4	2.7	2.0	2.7	4.8	6.8	7.5
77.5°	5.4	5.4	4.1	2.0	2.0	2.0	3.4	4.8	4.8
80°	4.1	3.4	2.7	1.4	1.4	1.4	2.0	3.4	3.4
82.5°	2.7	2.0	2.0	1.4	1.4	1.4	1.4	2.0	2.0
85°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)