

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: P856759

Luminaire Tested: **LD4C10D010 EU4109040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856759
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 EU4109040 4LBMDSWMW
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

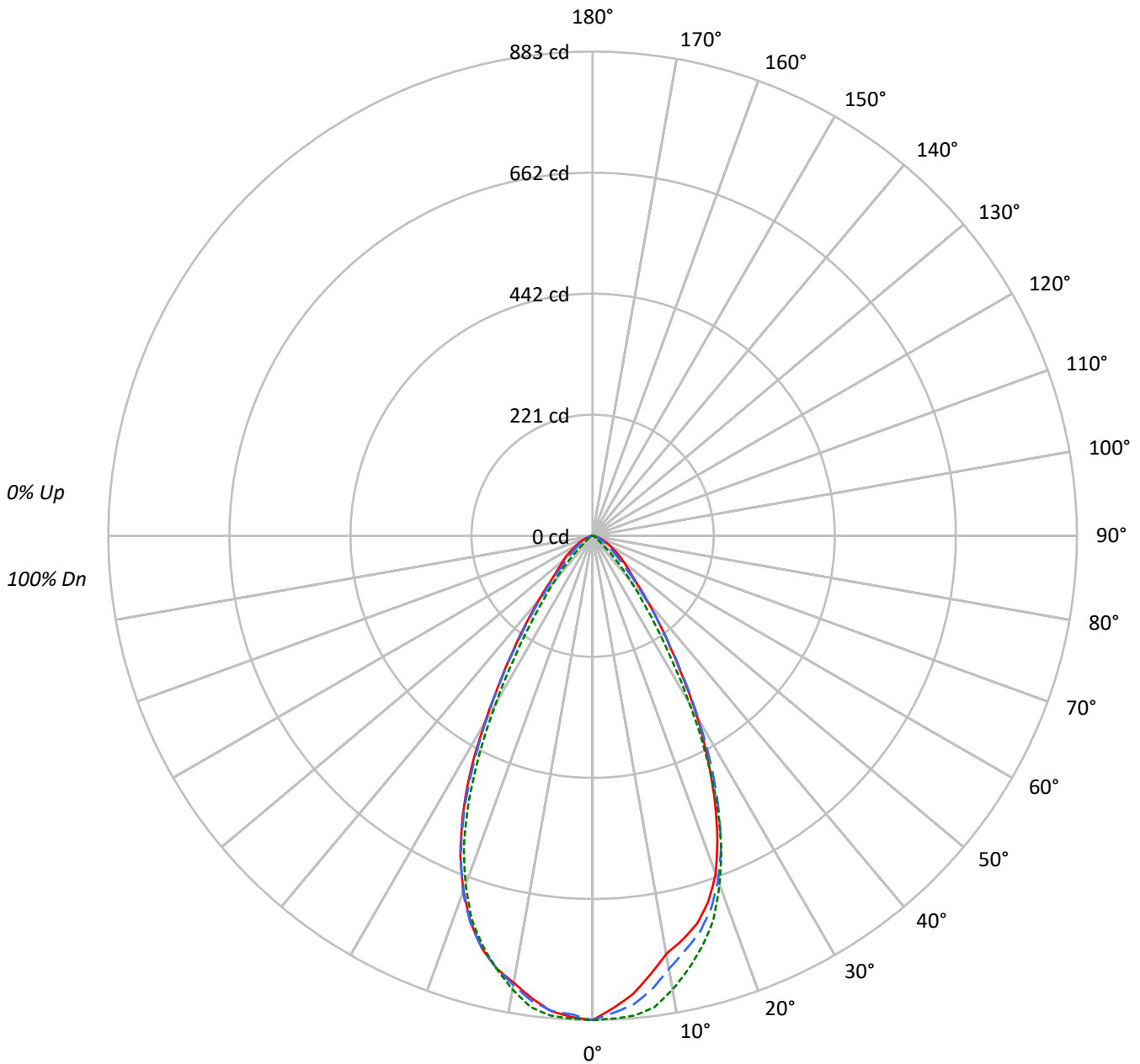
Lumens per Lamp: N/A
Luminaire Lumens: 804.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	108504	108504	108504
5°	103529	108327	107315
10°	96568	104814	103279
15°	93241	98456	99142
20°	85777	88444	90052
25°	71098	72386	75897
30°	54077	50019	55623
35°	36624	29965	37029
40°	24938	17176	24168
45°	17305	8652	16349
50°	14086	3517	13169
55°	11395	2185	10367
60°	9042	1671	8207
65°	7151	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°	81.2	10.1
10°-20°	213.3	26.5
20°-30°	244.8	30.4
30°-40°	148.7	18.5
40°-50°	63.7	7.9
50°-60°	30.6	3.8
60°-70°	14.9	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°	539.3	67.1
0°-40°	688.0	85.6
0°-60°	782.3	97.3
0°-90°	804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	804.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	883	883	883	883	883	
5°	840	858	878	870	870	78
15°	733	750	774	779	780	204
25°	524	542	534	554	560	238
35°	244	248	200	241	247	156
45°	100	89	50	80	94	81
55°	53	40	10	36	48	48
65°	25	16	5	15	22	25
75°	8	6	2	5	8	9
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P856759

CATALOG NUMBER: LD4C10D010 EU4109040 4LBMSWMMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2
2.5°	862.0	871.6	870.9	879.1	881.1	879.1	873.6	879.1	878.4
5°	839.5	850.4	857.9	871.6	878.4	877.0	869.5	870.9	870.2
7.5°	806.8	820.4	833.4	853.9	866.8	866.1	855.2	853.2	850.4
10°	774.1	787.0	802.0	823.2	840.2	842.9	832.0	829.3	827.9
12.5°	755.0	765.2	775.4	793.8	808.8	814.3	808.2	808.8	808.2
15°	733.1	743.4	750.2	763.8	774.1	781.6	778.8	782.9	779.5
17.5°	700.4	712.7	715.4	725.6	733.1	737.9	740.6	744.7	739.3
20°	656.1	665.6	669.0	673.1	676.5	682.7	690.9	695.0	688.8
22.5°	594.0	612.4	611.7	609.7	613.1	615.2	628.1	634.9	630.2
25°	524.5	543.5	541.5	533.3	534.0	538.1	554.5	563.3	559.9
27.5°	451.5	469.2	464.4	448.8	444.7	450.8	471.9	482.2	480.1
30°	381.2	392.8	385.3	357.4	352.6	360.1	387.4	397.6	392.1
32.5°	305.5	314.4	311.0	276.9	268.7	276.2	308.3	317.8	311.7
35°	244.2	252.3	247.6	207.3	199.8	208.0	241.4	252.3	246.9
37.5°	195.7	201.9	195.7	152.8	145.9	154.1	186.2	200.5	193.7
40°	155.5	160.3	152.1	112.5	107.1	111.2	141.2	155.5	150.7
42.5°	122.8	126.2	117.3	82.5	76.4	81.8	106.4	119.3	116.6
45°	99.6	99.6	88.7	57.3	49.8	55.2	79.8	93.4	94.1
47.5°	85.2	83.2	69.6	38.2	28.6	36.1	63.4	77.7	79.8
50°	73.7	70.9	57.3	28.0	18.4	25.9	52.5	66.8	68.9
52.5°	63.4	61.4	47.7	21.8	13.0	19.8	44.3	58.0	60.0
55°	53.2	51.8	39.6	17.0	10.2	15.0	35.5	47.1	48.4
57.5°	43.6	41.6	32.1	14.3	8.2	12.3	29.3	38.9	40.2
60°	36.8	34.8	25.9	11.6	6.8	9.5	23.9	32.1	33.4
62.5°	30.7	28.6	21.1	9.5	5.5	8.2	19.1	25.9	27.3
65°	24.6	23.2	16.4	7.5	4.8	6.1	15.0	20.5	21.8
67.5°	19.8	18.4	13.0	6.1	4.1	4.8	11.6	16.4	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	5.5	2.7	2.0	2.7	4.8	6.8	7.5
77.5°	5.5	5.5	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)