

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: P856690

Luminaire Tested: **LD4C10D010 EU4109027 4LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856690
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 4LBMDSWWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

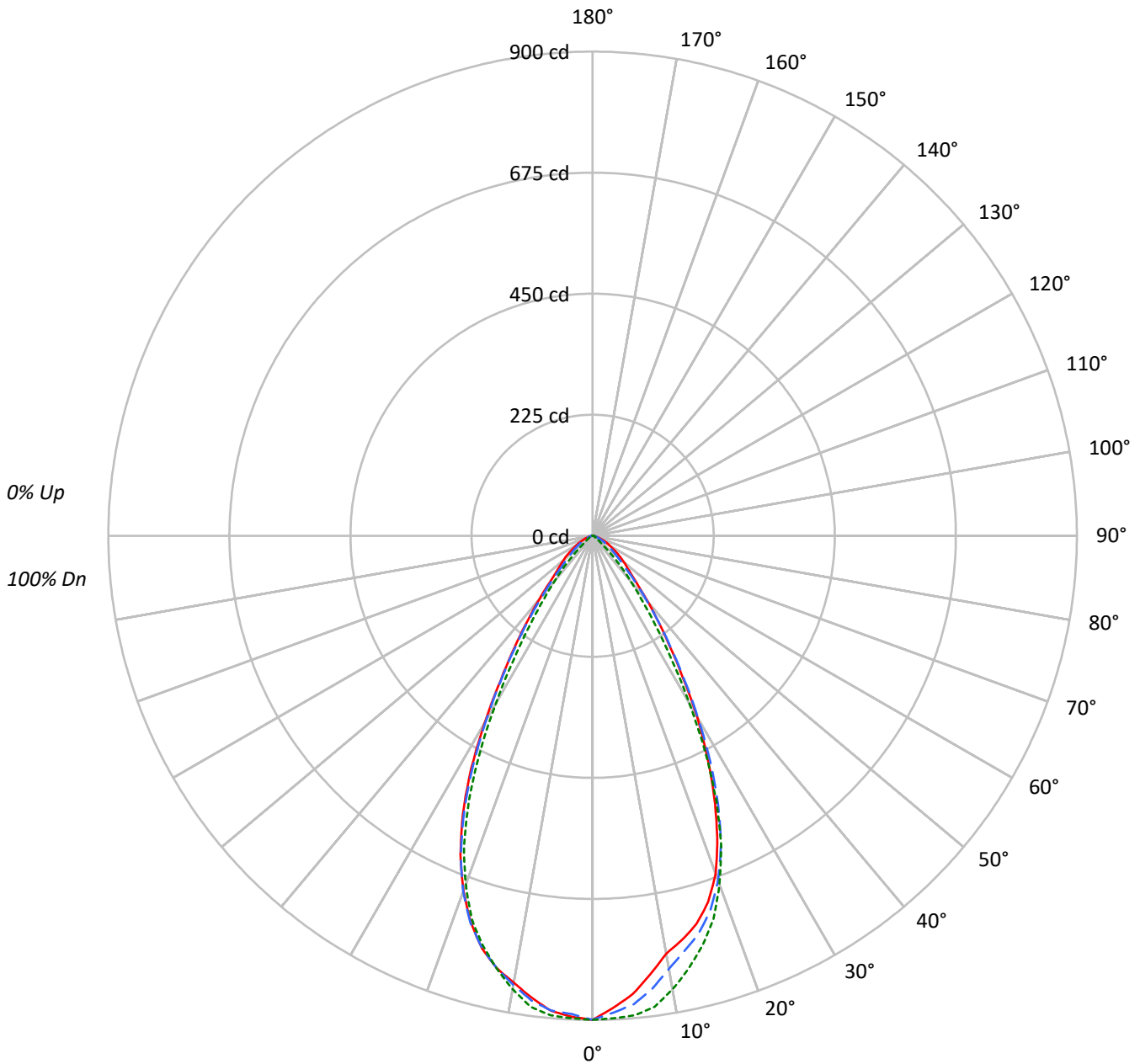
Lumens per Lamp: N/A
Luminaire Lumens: 819.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P856690

CATALOG NUMBER: LD4C10D010 EU4109027 4LBMDSWWH

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°	110531	110531	110531
5°	105466	110349	109326
10°	98364	106772	105213
15°	94983	100287	100999
20°	87372	90105	91739
25°	72413	73741	77320
30°	55084	50956	56673
35°	37299	30535	37719
40°	25403	17497	24617
45°	17617	8809	16662
50°	14334	3593	13417
55°	11609	2228	10559
60°	9214	1695	8354
65°	7267	1424	6453
70°	5496	1257	4993
75°	3940	997	3607
80°	2971	990	2476
85°	1973	987	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	10.1
10°-20°	217.3	26.5
20°-30°	249.4	30.4
30°-40°	151.5	18.5
40°-50°	64.9	7.9
50°-60°	31.1	3.8
60°-70°	15.1	1.8
70°-80°	5.6	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°	549.4	67.1
0°-40°	700.9	85.6
0°-60°	797.0	97.3
0°-90°	819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	819.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	900	900	900	900	900	
5°	855	874	895	886	886	79
15°	747	764	788	793	794	208
25°	534	552	544	565	570	242
35°	249	252	204	246	252	159
45°	101	90	51	81	96	82
55°	54	40	10	36	49	49
65°	25	17	5	15	22	25
75°	8	6	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°	899.7	899.7	899.7	899.7	899.7	899.7	899.7	899.7	899.7
2.5°	878.1	887.8	887.2	895.5	897.6	895.5	889.9	895.5	894.8
5°	855.2	866.3	874.0	887.8	894.8	893.4	885.8	887.2	886.5
7.5°	821.9	835.7	848.9	869.8	883.0	882.3	871.2	869.1	866.3
10°	788.5	801.7	817.0	838.5	855.9	858.7	847.6	844.8	843.4
12.5°	769.1	779.5	789.9	808.7	823.9	829.5	823.2	823.9	823.2
15°	746.8	757.2	764.2	778.1	788.5	796.1	793.4	797.5	794.1
17.5°	713.5	726.0	728.8	739.2	746.8	751.7	754.5	758.6	753.1
20°	668.3	678.0	681.5	685.7	689.2	695.4	703.7	707.9	701.7
22.5°	605.1	623.9	623.2	621.1	624.6	626.6	639.8	646.8	641.9
25°	534.2	553.7	551.6	543.3	544.0	548.1	564.8	573.8	570.4
27.5°	459.9	478.0	473.1	457.1	453.0	459.2	480.7	491.2	489.1
30°	388.3	400.2	392.5	364.0	359.2	366.8	394.6	405.0	399.5
32.5°	311.2	320.3	316.8	282.1	273.7	281.4	314.0	323.7	317.5
35°	248.7	257.0	252.2	211.2	203.6	211.9	245.9	257.0	251.5
37.5°	199.4	205.6	199.4	155.6	148.7	157.0	189.7	204.2	197.3
40°	158.4	163.3	154.9	114.6	109.1	113.2	143.8	158.4	153.5
42.5°	125.0	128.5	119.5	84.1	77.8	83.4	108.4	121.6	118.8
45°	101.4	101.4	90.3	58.4	50.7	56.3	81.3	95.2	95.9
47.5°	86.8	84.8	70.9	38.9	29.2	36.8	64.6	79.2	81.3
50°	75.0	72.3	58.4	28.5	18.8	26.4	53.5	68.1	70.2
52.5°	64.6	62.5	48.6	22.2	13.2	20.1	45.2	59.1	61.1
55°	54.2	52.8	40.3	17.4	10.4	15.3	36.1	47.9	49.3
57.5°	44.5	42.4	32.7	14.6	8.3	12.5	29.9	39.6	41.0
60°	37.5	35.4	26.4	11.8	6.9	9.7	24.3	32.7	34.0
62.5°	31.3	29.2	21.5	9.7	5.6	8.3	19.5	26.4	27.8
65°	25.0	23.6	16.7	7.6	4.9	6.3	15.3	20.8	22.2
67.5°	20.1	18.8	13.2	6.3	4.2	4.9	11.8	16.7	18.1
70°	15.3	13.9	9.7	4.9	3.5	4.2	9.0	12.5	13.9
72.5°	11.1	10.4	7.6	4.2	2.8	3.5	6.3	9.0	10.4
75°	8.3	7.6	5.6	2.8	2.1	2.8	4.9	6.9	7.6
77.5°	5.6	5.6	4.2	2.1	2.1	2.1	3.5	4.9	4.9
80°	4.2	3.5	2.8	1.4	1.4	1.4	2.1	3.5	3.5
82.5°	2.8	2.1	2.1	1.4	1.4	1.4	1.4	2.1	2.1
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)