

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: P856708

Luminaire Tested: **LD4C10D010 EU4109030 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856708
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 EU4109030 4LBMDDWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

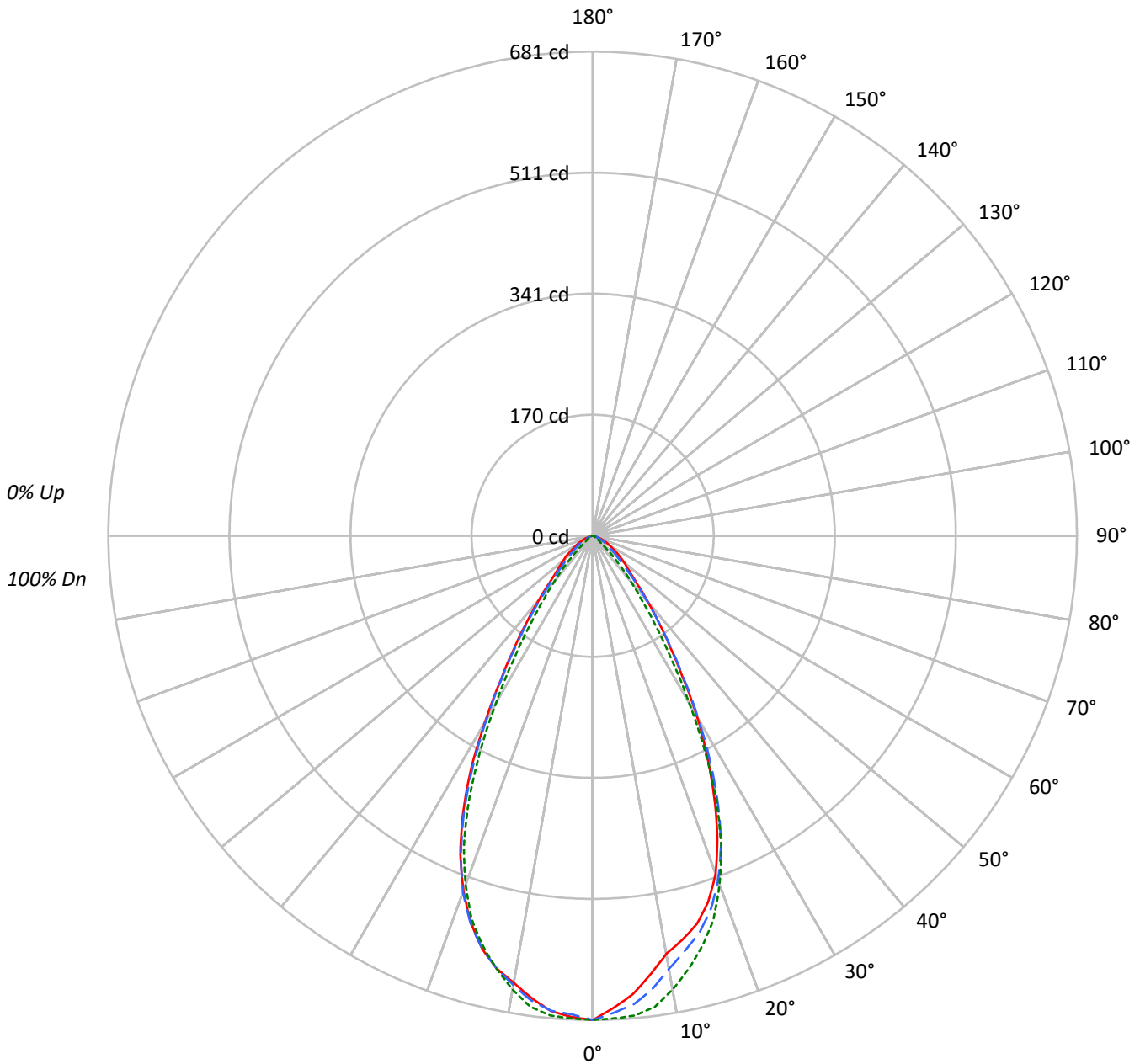
Lumens per Lamp: N/A
Luminaire Lumens: 620.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
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			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°	83676	83676	83676
5°	79839	83539	82762
10°	74462	80825	79652
15°	71912	75918	76452
20°	66140	68206	69448
25°	54818	55821	58532
30°	41707	38571	42898
35°	28241	23111	28556
40°	19229	13247	18635
45°	13343	6672	12614
50°	10856	2714	10149
55°	8782	1692	7989
60°	6978	1302	6339
65°	5494	1076	4884
70°	4167	934	3772
75°	2990	759	2753
80°	2264	778	1839
85°	1551	705	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	10.1
10°-20°	164.5	26.5
20°-30°	188.8	30.4
30°-40°	114.7	18.5
40°-50°	49.1	7.9
50°-60°	23.6	3.8
60°-70°	11.5	1.8
70°-80°	4.3	0.7
80°-90°	1.0	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°	415.9	67.1
0°-40°	530.6	85.6
0°-60°	603.3	97.3
0°-90°	620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	681	681	681	681	681	
5°	647	662	677	670	671	60
15°	565	578	597	601	601	157
25°	404	418	412	428	432	183
35°	188	191	154	186	190	121
45°	77	68	38	62	73	62
55°	41	30	8	27	37	37
65°	19	13	4	12	17	19
75°	6	4	2	4	6	7
85°	1	1	0	0	1	1
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°	681.1	681.1	681.1	681.1	681.1	681.1	681.1	681.1	681.1
2.5°	664.8	672.1	671.6	677.9	679.5	677.9	673.7	677.9	677.4
5°	647.4	655.8	661.6	672.1	677.4	676.3	670.5	671.6	671.1
7.5°	622.2	632.7	642.7	658.4	668.4	667.9	659.5	657.9	655.8
10°	596.9	606.9	618.5	634.8	647.9	650.0	641.6	639.5	638.5
12.5°	582.2	590.1	598.0	612.2	623.7	627.9	623.2	623.7	623.2
15°	565.4	573.2	578.5	589.0	596.9	602.7	600.6	603.8	601.1
17.5°	540.1	549.6	551.7	559.6	565.4	569.0	571.1	574.3	570.1
20°	505.9	513.3	515.9	519.1	521.7	526.4	532.8	535.9	531.2
22.5°	458.1	472.3	471.7	470.2	472.8	474.4	484.4	489.6	485.9
25°	404.4	419.2	417.6	411.3	411.8	414.9	427.6	434.4	431.8
27.5°	348.2	361.8	358.1	346.1	342.9	347.6	363.9	371.8	370.2
30°	294.0	302.9	297.1	275.6	271.9	277.7	298.7	306.6	302.4
32.5°	235.6	242.4	239.8	213.5	207.2	213.0	237.7	245.1	240.3
35°	188.3	194.6	190.9	159.9	154.1	160.4	186.2	194.6	190.4
37.5°	150.9	155.7	150.9	117.8	112.5	118.9	143.6	154.6	149.4
40°	119.9	123.6	117.3	86.8	82.6	85.7	108.9	119.9	116.2
42.5°	94.7	97.3	90.5	63.6	58.9	63.1	82.0	92.0	89.9
45°	76.8	76.8	68.4	44.2	38.4	42.6	61.5	72.1	72.6
47.5°	65.7	64.2	53.6	29.5	22.1	27.9	48.9	60.0	61.5
50°	56.8	54.7	44.2	21.6	14.2	20.0	40.5	51.5	53.1
52.5°	48.9	47.3	36.8	16.8	10.0	15.3	34.2	44.7	46.3
55°	41.0	40.0	30.5	13.1	7.9	11.6	27.3	36.3	37.3
57.5°	33.7	32.1	24.7	11.0	6.3	9.5	22.6	30.0	31.0
60°	28.4	26.8	20.0	8.9	5.3	7.4	18.4	24.7	25.8
62.5°	23.7	22.1	16.3	7.4	4.2	6.3	14.7	20.0	21.0
65°	18.9	17.9	12.6	5.8	3.7	4.7	11.6	15.8	16.8
67.5°	15.3	14.2	10.0	4.7	3.2	3.7	8.9	12.6	13.7
70°	11.6	10.5	7.4	3.7	2.6	3.2	6.8	9.5	10.5
72.5°	8.4	7.9	5.8	3.2	2.1	2.6	4.7	6.8	7.9
75°	6.3	5.8	4.2	2.1	1.6	2.1	3.7	5.3	5.8
77.5°	4.2	4.2	3.2	1.6	1.6	1.6	2.6	3.7	3.7
80°	3.2	2.6	2.1	1.1	1.1	1.1	1.6	2.6	2.6
82.5°	2.1	1.6	1.6	1.1	1.1	1.1	1.1	1.6	1.6
85°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)