

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: P859010

Luminaire Tested: **LD4C50D010 EU4509040 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859010
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: LD4C50D010 EU4509040 4LBMDSWGPH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

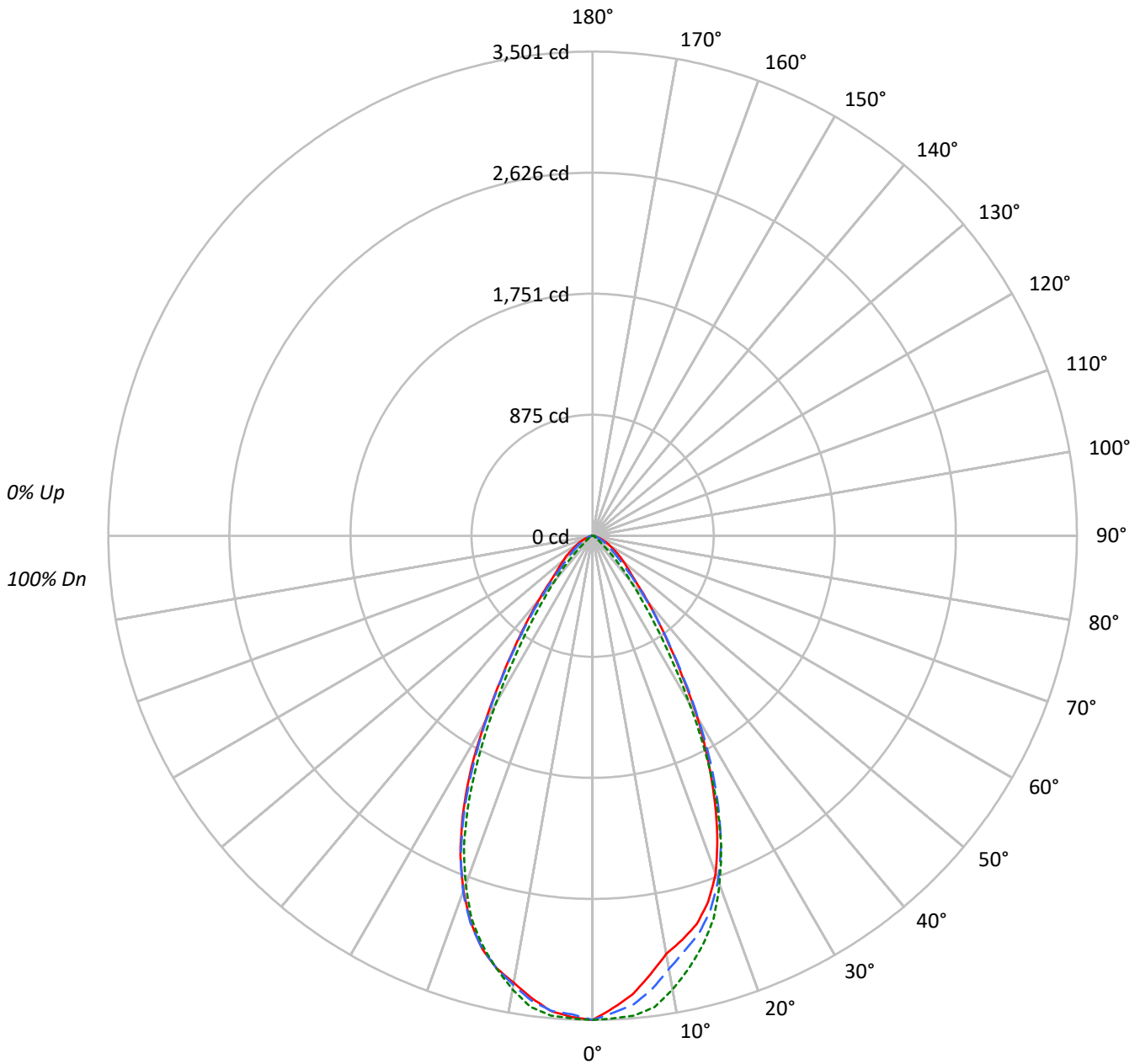
Lumens per Lamp: N/A
Luminaire Lumens: 3187.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	430098	430098	430098
5°	410406	429398	425402
10°	382766	415488	409413
15°	369619	390249	393009
20°	339997	350600	356967
25°	281803	286927	300862
30°	214377	198262	220506
35°	145147	118796	146767
40°	98854	68063	95807
45°	68576	34279	64823
50°	55809	13952	52177
55°	45172	8696	41103
60°	35873	6634	32556
65°	28285	5494	25145
70°	21372	4849	19433
75°	15379	3845	14098
80°	11461	3820	9551
85°	7612	3806	7612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	10.1
10°-20°	845.7	26.5
20°-30°	970.3	30.4
30°-40°	589.5	18.5
40°-50°	252.6	7.9
50°-60°	121.2	3.8
60°-70°	58.9	1.8
70°-80°	21.9	0.7
80°-90°	5.0	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°	2137.9	67.1
0°-40°	2727.4	85.6
0°-60°	3101.2	97.3
0°-90°	3187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3501	3501	3501	3501	3501	
5°	3328	3401	3482	3447	3450	309
15°	2906	2974	3068	3087	3090	809
25°	2079	2146	2117	2198	2220	943
35°	968	981	792	957	979	620
45°	395	351	197	316	373	321
55°	211	157	41	141	192	190
65°	97	65	19	60	86	99
75°	32	22	8	19	30	36
85°	5	5	3	3	5	7
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°	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9	3500.9
2.5°	3417.1	3454.9	3452.2	3484.7	3492.8	3484.7	3463.0	3484.7	3481.9
5°	3327.9	3371.1	3400.8	3454.9	3481.9	3476.5	3446.8	3452.2	3449.5
7.5°	3198.1	3252.2	3303.5	3384.6	3436.0	3433.3	3390.0	3381.9	3371.1
10°	3068.3	3119.7	3179.2	3263.0	3330.6	3341.4	3298.1	3287.3	3281.9
12.5°	2992.6	3033.2	3073.7	3146.7	3206.2	3227.8	3203.5	3206.2	3203.5
15°	2906.1	2946.7	2973.7	3027.8	3068.3	3098.1	3087.3	3103.5	3090.0
17.5°	2776.4	2825.0	2835.8	2876.4	2906.1	2925.1	2935.9	2952.1	2930.5
20°	2600.6	2638.5	2652.0	2668.2	2681.7	2706.1	2738.5	2754.7	2730.4
22.5°	2354.6	2427.6	2424.9	2416.8	2430.3	2438.4	2489.8	2516.8	2497.9
25°	2078.9	2154.6	2146.5	2114.0	2116.7	2133.0	2197.8	2233.0	2219.5
27.5°	1789.6	1859.9	1841.0	1778.8	1762.6	1786.9	1870.7	1911.3	1903.2
30°	1511.2	1557.1	1527.4	1416.6	1397.6	1427.4	1535.5	1576.1	1554.4
32.5°	1211.1	1246.3	1232.7	1097.6	1065.1	1094.9	1221.9	1259.8	1235.4
35°	967.8	1000.2	981.3	821.8	792.1	824.5	957.0	1000.2	978.6
37.5°	775.9	800.2	775.9	605.6	578.5	611.0	738.0	794.8	767.8
40°	616.4	635.3	602.9	446.1	424.4	440.7	559.6	616.4	597.4
42.5°	486.6	500.1	465.0	327.1	302.8	324.4	421.7	473.1	462.3
45°	394.7	394.7	351.4	227.1	197.3	219.0	316.3	370.4	373.1
47.5°	337.9	329.8	275.7	151.4	113.5	143.3	251.4	308.2	316.3
50°	292.0	281.2	227.1	110.8	73.0	102.7	208.2	264.9	273.0
52.5°	251.4	243.3	189.2	86.5	51.4	78.4	175.7	229.8	237.9
55°	210.9	205.5	156.8	67.6	40.6	59.5	140.6	186.5	191.9
57.5°	173.0	164.9	127.1	56.8	32.4	48.7	116.2	154.1	159.5
60°	146.0	137.9	102.7	46.0	27.0	37.8	94.6	127.1	132.5
62.5°	121.7	113.5	83.8	37.8	21.6	32.4	75.7	102.7	108.1
65°	97.3	91.9	64.9	29.7	18.9	24.3	59.5	81.1	86.5
67.5°	78.4	73.0	51.4	24.3	16.2	18.9	46.0	64.9	70.3
70°	59.5	54.1	37.8	18.9	13.5	16.2	35.1	48.7	54.1
72.5°	43.3	40.6	29.7	16.2	10.8	13.5	24.3	35.1	40.6
75°	32.4	29.7	21.6	10.8	8.1	10.8	18.9	27.0	29.7
77.5°	21.6	21.6	16.2	8.1	8.1	8.1	13.5	18.9	18.9
80°	16.2	13.5	10.8	5.4	5.4	5.4	8.1	13.5	13.5
82.5°	10.8	8.1	8.1	5.4	5.4	5.4	5.4	8.1	8.1
85°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	5.4	5.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)