

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: P858989

Luminaire Tested: **LD4C50D010 EU4509035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858989
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 EU4509035 4LBMDSWGPH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

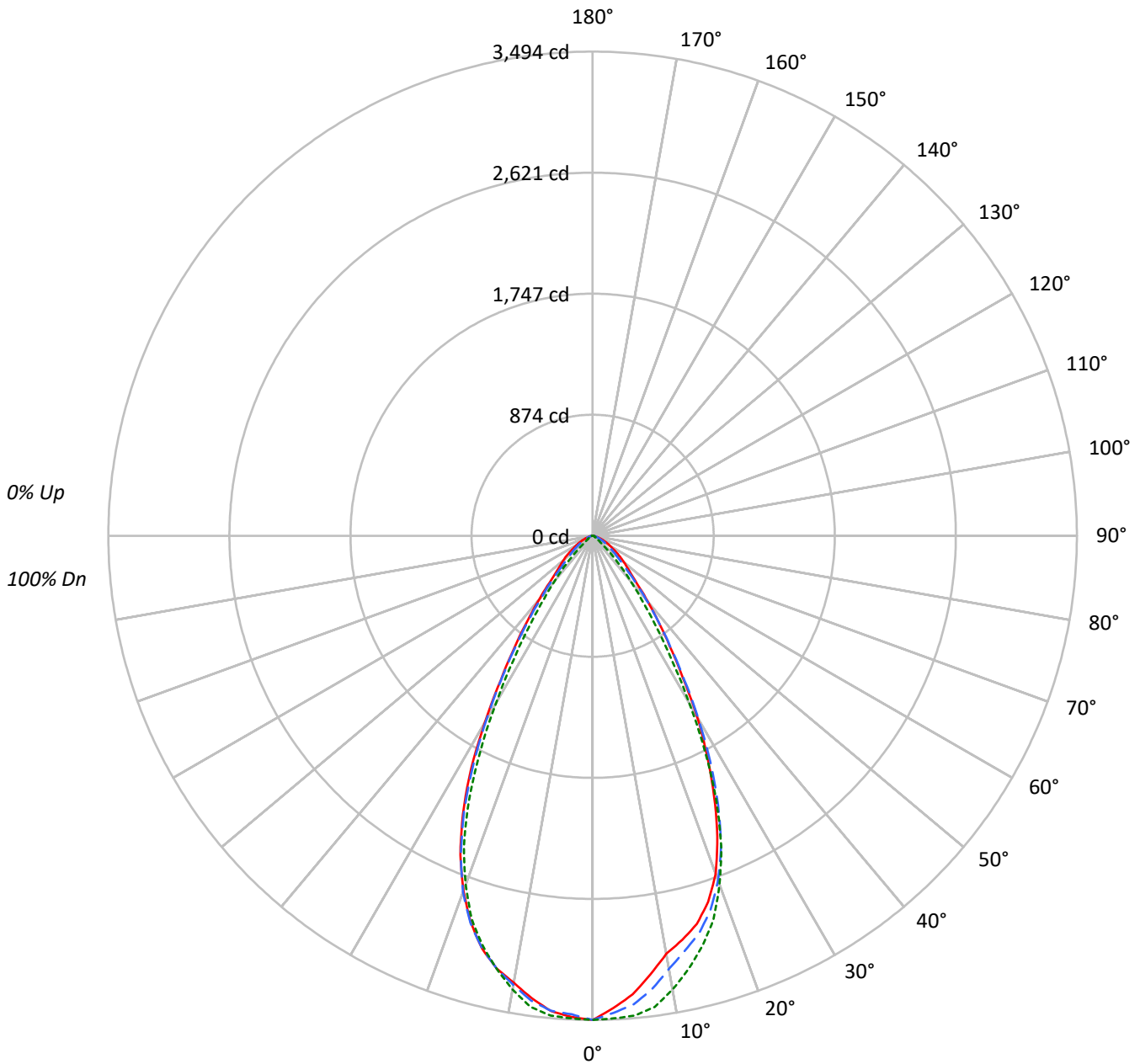
Lumens per Lamp: N/A
Luminaire Lumens: 3181.0 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	429287	429287	429287
5°	409629	428596	424600
10°	382055	414702	408639
15°	368932	389524	392258
20°	339370	349946	356300
25°	281274	286398	300292
30°	213966	197893	220094
35°	144877	118571	146497
40°	98662	67934	95631
45°	68437	34227	64701
50°	55694	13933	52082
55°	45087	8675	41039
60°	35800	6634	32482
65°	28227	5494	25087
70°	21336	4849	19397
75°	15379	3845	14098
80°	11461	3820	9551
85°	7612	3806	7612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	10.1
10°-20°	844.1	26.5
20°-30°	968.5	30.4
30°-40°	588.3	18.5
40°-50°	252.1	7.9
50°-60°	121.0	3.8
60°-70°	58.8	1.8
70°-80°	21.8	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°	2133.9	67.1
0°-40°	2722.2	85.6
0°-60°	3095.3	97.3
0°-90°	3181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3494	3494	3494	3494	3494	
5°	3322	3394	3475	3440	3443	309
15°	2901	2968	3063	3081	3084	808
25°	2075	2142	2113	2194	2215	941
35°	966	980	791	955	977	619
45°	394	351	197	316	372	320
55°	210	156	40	140	192	190
65°	97	65	19	59	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°	3494.3	3494.3	3494.3	3494.3	3494.3	3494.3	3494.3	3494.3	3494.3
2.5°	3410.6	3448.4	3445.7	3478.1	3486.2	3478.1	3456.5	3478.1	3475.4
5°	3321.6	3364.8	3394.4	3448.4	3475.4	3470.0	3440.3	3445.7	3443.0
7.5°	3192.1	3246.0	3297.3	3378.3	3429.5	3426.8	3383.7	3375.6	3364.8
10°	3062.6	3113.8	3173.2	3256.8	3324.3	3335.1	3291.9	3281.1	3275.7
12.5°	2987.0	3027.5	3068.0	3140.8	3200.2	3221.8	3197.5	3200.2	3197.5
15°	2900.7	2941.1	2968.1	3022.1	3062.6	3092.2	3081.4	3097.6	3084.1
17.5°	2771.1	2819.7	2830.5	2871.0	2900.7	2919.5	2930.3	2946.5	2924.9
20°	2595.8	2633.5	2647.0	2663.2	2676.7	2701.0	2733.4	2749.6	2725.3
22.5°	2350.2	2423.1	2420.4	2412.3	2425.8	2433.9	2485.1	2512.1	2493.2
25°	2075.0	2150.5	2142.4	2110.1	2112.8	2128.9	2193.7	2228.8	2215.3
27.5°	1786.3	1856.4	1837.5	1775.5	1759.3	1783.6	1867.2	1907.7	1899.6
30°	1508.3	1554.2	1524.5	1413.9	1395.0	1424.7	1532.6	1573.1	1551.5
32.5°	1208.8	1243.9	1230.4	1095.5	1063.1	1092.8	1219.6	1257.4	1233.1
35°	966.0	998.4	979.5	820.3	790.6	823.0	955.2	998.4	976.8
37.5°	774.4	798.7	774.4	604.4	577.4	609.8	736.6	793.3	766.3
40°	615.2	634.1	601.7	445.2	423.6	439.8	558.5	615.2	596.3
42.5°	485.7	499.2	464.1	326.5	302.2	323.8	420.9	472.2	461.4
45°	393.9	393.9	350.8	226.7	197.0	218.6	315.7	369.7	372.4
47.5°	337.3	329.2	275.2	151.1	113.3	143.0	250.9	307.6	315.7
50°	291.4	280.6	226.7	110.6	72.9	102.5	207.8	264.4	272.5
52.5°	250.9	242.8	188.9	86.3	51.3	78.3	175.4	229.4	237.4
55°	210.5	205.1	156.5	67.5	40.5	59.4	140.3	186.2	191.6
57.5°	172.7	164.6	126.8	56.7	32.4	48.6	116.0	153.8	159.2
60°	145.7	137.6	102.5	45.9	27.0	37.8	94.4	126.8	132.2
62.5°	121.4	113.3	83.6	37.8	21.6	32.4	75.6	102.5	107.9
65°	97.1	91.7	64.8	29.7	18.9	24.3	59.4	80.9	86.3
67.5°	78.3	72.9	51.3	24.3	16.2	18.9	45.9	64.8	70.2
70°	59.4	54.0	37.8	18.9	13.5	16.2	35.1	48.6	54.0
72.5°	43.2	40.5	29.7	16.2	10.8	13.5	24.3	35.1	40.5
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)