

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: P859014

Luminaire Tested: **LD4C50D010 EU4509040 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859014
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 4LBMDSWWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

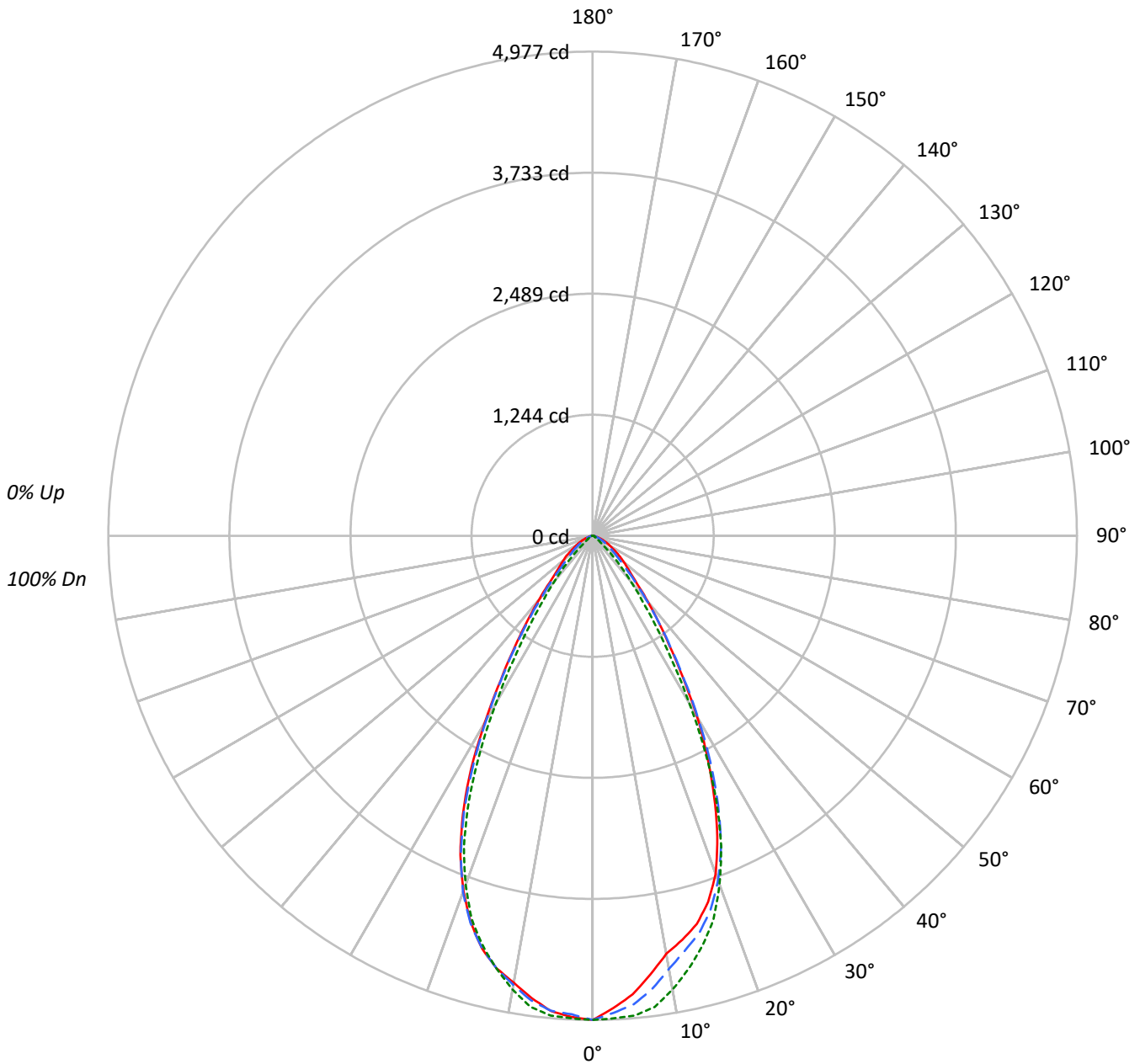
Lumens per Lamp: N/A
Luminaire Lumens: 4531.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	611466	611466	611466
5°	583477	610485	604799
10°	544191	590698	582065
15°	525500	554829	558734
20°	483390	498465	507512
25°	400643	407936	427740
30°	304784	281888	313508
35°	206353	168888	208662
40°	140536	96770	136222
45°	97486	48752	92152
50°	79336	19839	74195
55°	64214	12359	58452
60°	50984	9435	46267
65°	40232	7820	35756
70°	30388	6897	27622
75°	21882	5459	20079
80°	16343	5448	13584
85°	10854	5356	10854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.6	10.1
10°-20°	1202.4	26.5
20°-30°	1379.5	30.4
30°-40°	838.0	18.5
40°-50°	359.2	7.9
50°-60°	172.3	3.8
60°-70°	83.8	1.8
70°-80°	31.1	0.7
80°-90°	7.1	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°	3039.5	67.1
0°-40°	3877.5	85.6
0°-60°	4409.0	97.3
0°-90°	4531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4531.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4977	4977	4977	4977	4977	
5°	4731	4835	4950	4900	4904	440
15°	4132	4228	4362	4389	4393	1150
25°	2956	3052	3009	3125	3156	1341
35°	1376	1395	1126	1361	1391	882
45°	561	500	281	450	530	456
55°	300	223	58	200	273	271
65°	138	92	27	85	123	140
75°	46	31	12	27	42	51
85°	8	8	4	4	8	10
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°	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2
2.5°	4858.1	4911.9	4908.1	4954.2	4965.7	4954.2	4923.4	4954.2	4950.3
5°	4731.3	4792.8	4835.0	4911.9	4950.3	4942.6	4900.4	4908.1	4904.2
7.5°	4546.8	4623.6	4696.7	4812.0	4885.0	4881.2	4819.7	4808.1	4792.8
10°	4362.3	4435.3	4519.9	4639.0	4735.1	4750.5	4689.0	4673.6	4665.9
12.5°	4254.7	4312.3	4370.0	4473.7	4558.3	4589.1	4554.5	4558.3	4554.5
15°	4131.7	4189.3	4227.8	4304.6	4362.3	4404.6	4389.2	4412.3	4393.0
17.5°	3947.2	4016.4	4031.8	4089.4	4131.7	4158.6	4174.0	4197.0	4166.3
20°	3697.4	3751.2	3770.4	3793.5	3812.7	3847.3	3893.4	3916.5	3881.9
22.5°	3347.6	3451.4	3447.6	3436.0	3455.2	3466.8	3539.8	3578.2	3551.3
25°	2955.6	3063.2	3051.7	3005.6	3009.4	3032.5	3124.7	3174.7	3155.5
27.5°	2544.3	2644.3	2617.4	2529.0	2505.9	2540.5	2659.7	2717.3	2705.8
30°	2148.5	2213.8	2171.5	2014.0	1987.1	2029.3	2183.1	2240.7	2210.0
32.5°	1721.9	1771.8	1752.6	1560.4	1514.3	1556.6	1737.2	1791.0	1756.4
35°	1375.9	1422.1	1395.2	1168.4	1126.1	1172.2	1360.6	1422.1	1391.3
37.5°	1103.1	1137.7	1103.1	860.9	822.5	868.6	1049.3	1130.0	1091.5
40°	876.3	903.2	857.1	634.2	603.4	626.5	795.6	876.3	849.4
42.5°	691.8	711.0	661.1	465.1	430.5	461.2	599.6	672.6	657.2
45°	561.1	561.1	499.6	322.8	280.6	311.3	449.7	526.5	530.4
47.5°	480.4	468.9	392.0	215.2	161.4	203.7	357.4	438.2	449.7
50°	415.1	399.7	322.8	157.6	103.8	146.1	295.9	376.7	388.2
52.5°	357.4	345.9	269.0	123.0	73.0	111.5	249.8	326.7	338.2
55°	299.8	292.1	222.9	96.1	57.7	84.6	199.9	265.2	272.9
57.5°	246.0	234.4	180.6	80.7	46.1	69.2	165.3	219.1	226.8
60°	207.5	196.0	146.1	65.3	38.4	53.8	134.5	180.6	188.3
62.5°	173.0	161.4	119.1	53.8	30.7	46.1	107.6	146.1	153.7
65°	138.4	130.7	92.2	42.3	26.9	34.6	84.6	115.3	123.0
67.5°	111.5	103.8	73.0	34.6	23.1	26.9	65.3	92.2	99.9
70°	84.6	76.9	53.8	26.9	19.2	23.1	50.0	69.2	76.9
72.5°	61.5	57.7	42.3	23.1	15.4	19.2	34.6	50.0	57.7
75°	46.1	42.3	30.7	15.4	11.5	15.4	26.9	38.4	42.3
77.5°	30.7	30.7	23.1	11.5	11.5	11.5	19.2	26.9	26.9
80°	23.1	19.2	15.4	7.7	7.7	7.7	11.5	19.2	19.2
82.5°	15.4	11.5	11.5	7.7	7.7	7.7	7.7	11.5	11.5
85°	7.7	7.7	7.7	3.8	3.8	3.8	3.8	7.7	7.7
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)