

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: P858993

Luminaire Tested: **LD4C50D010 EU4509035 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858993
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 4LBMDSWWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

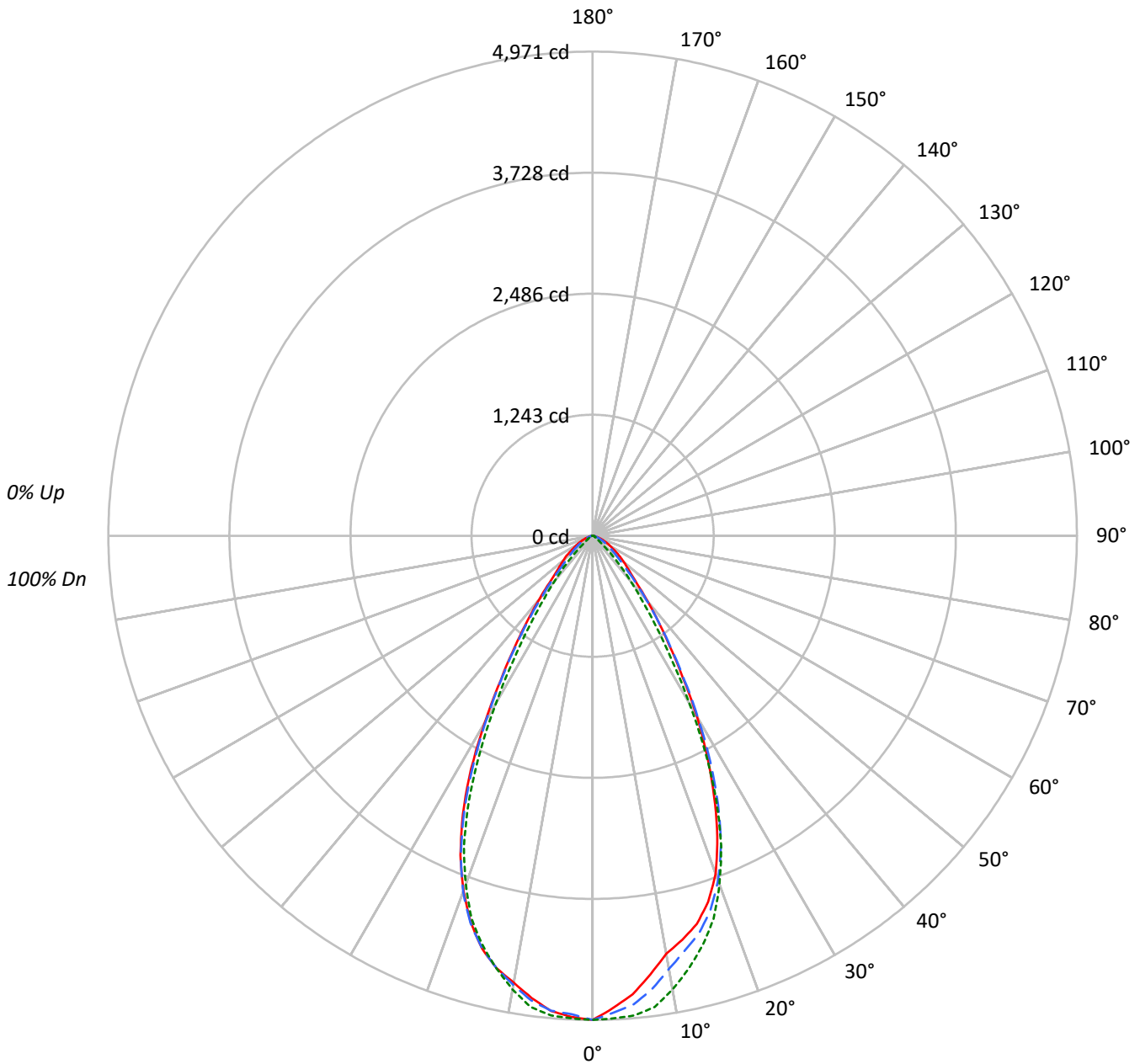
Lumens per Lamp: N/A
Luminaire Lumens: 4525.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	610655	610655	610655
5°	582700	609683	603998
10°	543468	589912	581291
15°	524800	554091	557996
20°	482750	497798	506832
25°	400114	407393	427171
30°	304373	281505	313083
35°	206083	168663	208392
40°	140343	96641	136045
45°	97364	48682	92031
50°	79222	19801	74100
55°	64128	12337	58366
60°	50935	9435	46217
65°	40174	7820	35697
70°	30316	6897	27587
75°	21882	5459	20031
80°	16272	5448	13584
85°	10854	5356	10854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.0	10.1
10°-20°	1200.8	26.5
20°-30°	1377.7	30.4
30°-40°	836.9	18.5
40°-50°	358.7	7.9
50°-60°	172.1	3.8
60°-70°	83.7	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°	3035.5	67.1
0°-40°	3872.4	85.6
0°-60°	4403.1	97.3
0°-90°	4525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4525.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4971	4971	4971	4971	4971	
5°	4725	4829	4944	4894	4898	439
15°	4126	4222	4356	4383	4387	1149
25°	2952	3048	3005	3121	3151	1339
35°	1374	1393	1125	1359	1390	881
45°	560	499	280	449	530	455
55°	299	223	58	200	272	270
65°	138	92	27	84	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°	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6
2.5°	4851.7	4905.4	4901.6	4947.6	4959.1	4947.6	4916.9	4947.6	4943.8
5°	4725.0	4786.4	4828.6	4905.4	4943.8	4936.1	4893.9	4901.6	4897.7
7.5°	4540.8	4617.5	4690.4	4805.6	4878.5	4874.7	4813.3	4801.8	4786.4
10°	4356.5	4429.4	4513.9	4632.9	4728.8	4744.2	4682.8	4667.4	4659.7
12.5°	4249.0	4306.6	4364.2	4467.8	4552.3	4583.0	4548.4	4552.3	4548.4
15°	4126.2	4183.8	4222.2	4298.9	4356.5	4398.7	4383.4	4406.4	4387.2
17.5°	3942.0	4011.1	4026.4	4084.0	4126.2	4153.1	4168.4	4191.5	4160.8
20°	3692.5	3746.2	3765.4	3788.4	3807.6	3842.2	3888.2	3911.3	3876.7
22.5°	3343.2	3446.8	3443.0	3431.5	3450.7	3462.2	3535.1	3573.5	3546.6
25°	2951.7	3059.2	3047.6	3001.6	3005.4	3028.4	3120.6	3170.5	3151.3
27.5°	2541.0	2640.8	2613.9	2525.6	2502.6	2537.1	2656.1	2713.7	2702.2
30°	2145.6	2210.9	2168.7	2011.3	1984.4	2026.6	2180.2	2237.8	2207.0
32.5°	1719.6	1769.5	1750.3	1558.4	1512.3	1554.5	1734.9	1788.7	1754.1
35°	1374.1	1420.2	1393.3	1166.9	1124.6	1170.7	1358.8	1420.2	1389.5
37.5°	1101.6	1136.1	1101.6	859.8	821.4	867.5	1047.9	1128.5	1090.1
40°	875.1	902.0	855.9	633.3	602.6	625.6	794.5	875.1	848.3
42.5°	690.9	710.1	660.2	464.4	429.9	460.6	598.8	671.7	656.4
45°	560.4	560.4	499.0	322.4	280.2	310.9	449.1	525.9	529.7
47.5°	479.8	468.3	391.5	214.9	161.2	203.4	357.0	437.6	449.1
50°	414.5	399.2	322.4	157.4	103.6	145.9	295.6	376.2	387.7
52.5°	357.0	345.5	268.7	122.8	72.9	111.3	249.5	326.3	337.8
55°	299.4	291.7	222.6	96.0	57.6	84.4	199.6	264.8	272.5
57.5°	245.7	234.1	180.4	80.6	46.1	69.1	165.0	218.8	226.5
60°	207.3	195.8	145.9	65.3	38.4	53.7	134.3	180.4	188.1
62.5°	172.7	161.2	119.0	53.7	30.7	46.1	107.5	145.9	153.5
65°	138.2	130.5	92.1	42.2	26.9	34.5	84.4	115.2	122.8
67.5°	111.3	103.6	72.9	34.5	23.0	26.9	65.3	92.1	99.8
70°	84.4	76.8	53.7	26.9	19.2	23.0	49.9	69.1	76.8
72.5°	61.4	57.6	42.2	23.0	15.4	19.2	34.5	49.9	57.6
75°	46.1	42.2	30.7	15.4	11.5	15.4	26.9	38.4	42.2
77.5°	30.7	30.7	23.0	11.5	11.5	11.5	19.2	26.9	26.9
80°	23.0	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)