

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: P857790

Luminaire Tested: **LD4C35D010 EU4359050 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857790
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: LD4C35D010 EU4359050 4LBMDSWGPH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

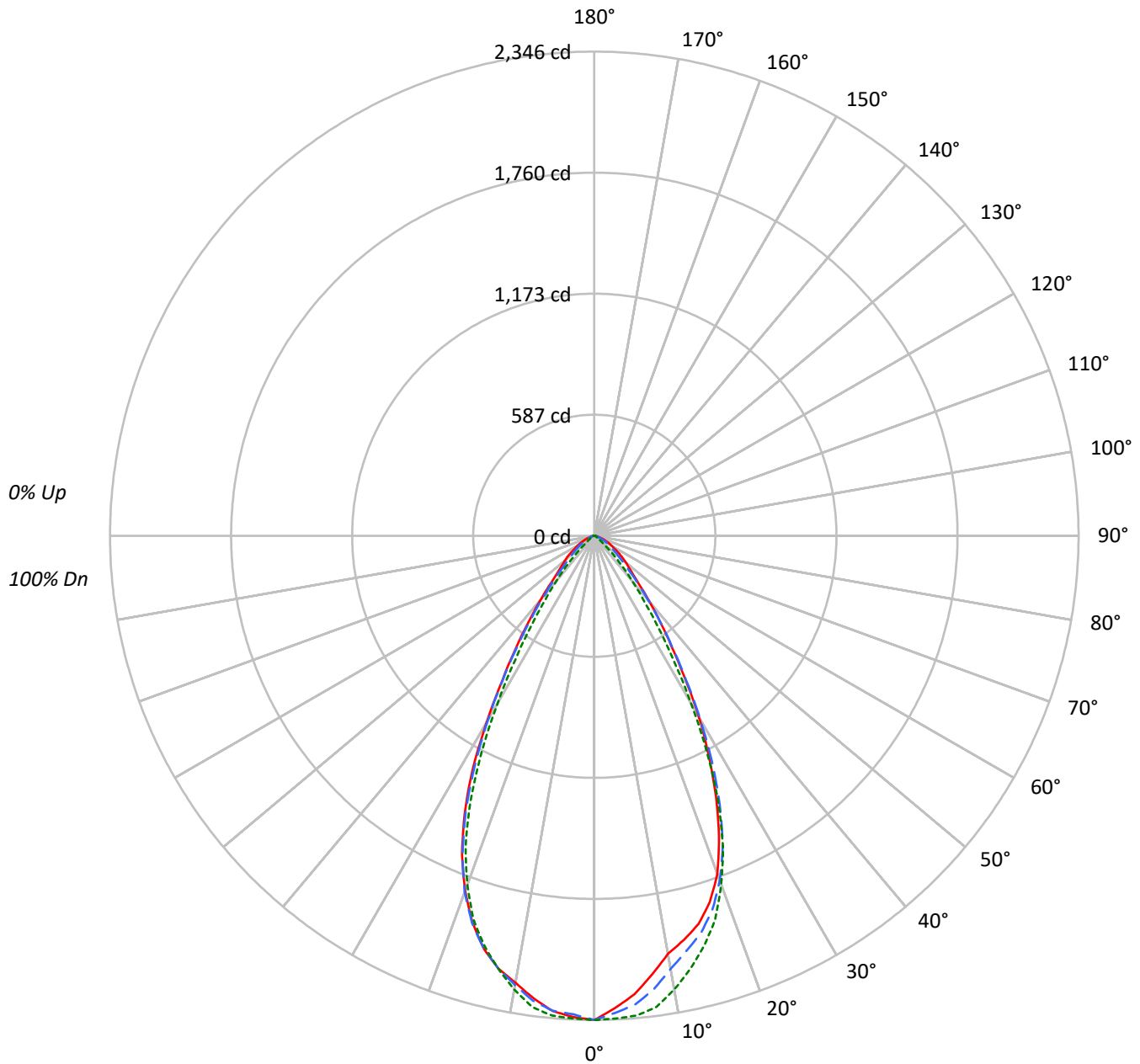
Lumens per Lamp: N/A
Luminaire Lumens: 2136.0 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	288263	288263	288263
5°	275059	287798	285110
10°	256546	278464	274397
15°	247735	261561	263405
20°	227876	234988	239250
25°	188867	192310	201636
30°	143675	132879	147789
35°	97275	79622	98370
40°	66250	45626	64214
45°	45955	22986	43435
50°	37403	9346	34976
55°	30265	5826	27545
60°	24030	4447	21819
65°	18953	3692	16860
70°	14332	3269	13003
75°	10300	2563	9446
80°	7712	2547	6438
85°	5075	2537	5075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	10.1
10°-20°	566.8	26.5
20°-30°	650.3	30.4
30°-40°	395.1	18.5
40°-50°	169.3	7.9
50°-60°	81.2	3.8
60°-70°	39.5	1.8
70°-80°	14.7	0.7
80°-90°	3.4	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°	1432.9	67.1
0°-40°	1827.9	85.6
0°-60°	2078.5	97.3
0°-90°	2136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2136.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2346	2346	2346	2346	2346	
5°	2230	2279	2334	2310	2312	207
15°	1948	1993	2056	2069	2071	542
25°	1393	1439	1419	1473	1488	632
35°	649	658	531	641	656	416
45°	264	236	132	212	250	215
55°	141	105	27	94	129	128
65°	65	44	13	40	58	66
75°	22	14	5	13	20	24
85°	4	4	2	2	4	5
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°	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4	2346.4
2.5°	2290.2	2315.6	2313.8	2335.5	2340.9	2335.5	2321.0	2335.5	2333.7
5°	2230.4	2259.4	2279.3	2315.6	2333.7	2330.1	2310.1	2313.8	2311.9
7.5°	2143.4	2179.7	2214.1	2268.5	2302.9	2301.1	2272.1	2266.6	2259.4
10°	2056.5	2090.9	2130.8	2186.9	2232.2	2239.5	2210.5	2203.2	2199.6
12.5°	2005.7	2032.9	2060.1	2109.0	2148.9	2163.4	2147.1	2148.9	2147.1
15°	1947.8	1974.9	1993.1	2029.3	2056.5	2076.4	2069.1	2080.0	2071.0
17.5°	1860.8	1893.4	1900.6	1927.8	1947.8	1960.4	1967.7	1978.6	1964.1
20°	1743.0	1768.4	1777.4	1788.3	1797.4	1813.7	1835.4	1846.3	1830.0
22.5°	1578.1	1627.1	1625.2	1619.8	1628.9	1634.3	1668.7	1686.8	1674.2
25°	1393.3	1444.1	1438.6	1416.9	1418.7	1429.6	1473.0	1496.6	1487.5
27.5°	1199.5	1246.6	1233.9	1192.2	1181.3	1197.6	1253.8	1281.0	1275.6
30°	1012.8	1043.6	1023.7	949.4	936.7	956.7	1029.1	1056.3	1041.8
32.5°	811.7	835.3	826.2	735.6	713.9	733.8	819.0	844.3	828.0
35°	648.6	670.4	657.7	550.8	530.9	552.6	641.4	670.4	655.9
37.5°	520.0	536.3	520.0	405.9	387.7	409.5	494.6	532.7	514.6
40°	413.1	425.8	404.0	299.0	284.5	295.3	375.1	413.1	400.4
42.5°	326.1	335.2	311.6	219.2	202.9	217.4	282.7	317.1	309.8
45°	264.5	264.5	235.5	152.2	132.3	146.8	212.0	248.2	250.0
47.5°	226.5	221.0	184.8	101.5	76.1	96.0	168.5	206.6	212.0
50°	195.7	188.4	152.2	74.3	48.9	68.9	139.5	177.6	183.0
52.5°	168.5	163.1	126.8	58.0	34.4	52.5	117.8	154.0	159.4
55°	141.3	137.7	105.1	45.3	27.2	39.9	94.2	125.0	128.6
57.5°	116.0	110.5	85.2	38.0	21.7	32.6	77.9	103.3	106.9
60°	97.8	92.4	68.9	30.8	18.1	25.4	63.4	85.2	88.8
62.5°	81.5	76.1	56.2	25.4	14.5	21.7	50.7	68.9	72.5
65°	65.2	61.6	43.5	19.9	12.7	16.3	39.9	54.4	58.0
67.5°	52.5	48.9	34.4	16.3	10.9	12.7	30.8	43.5	47.1
70°	39.9	36.2	25.4	12.7	9.1	10.9	23.6	32.6	36.2
72.5°	29.0	27.2	19.9	10.9	7.2	9.1	16.3	23.6	27.2
75°	21.7	19.9	14.5	7.2	5.4	7.2	12.7	18.1	19.9
77.5°	14.5	14.5	10.9	5.4	5.4	5.4	9.1	12.7	12.7
80°	10.9	9.1	7.2	3.6	3.6	3.6	5.4	9.1	9.1
82.5°	7.2	5.4	5.4	3.6	3.6	3.6	3.6	5.4	5.4
85°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	3.6	3.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)