

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: P857726

Luminaire Tested: **LD4C35D010 EU4359030 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857726
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 EU4359030 4LBMDDWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

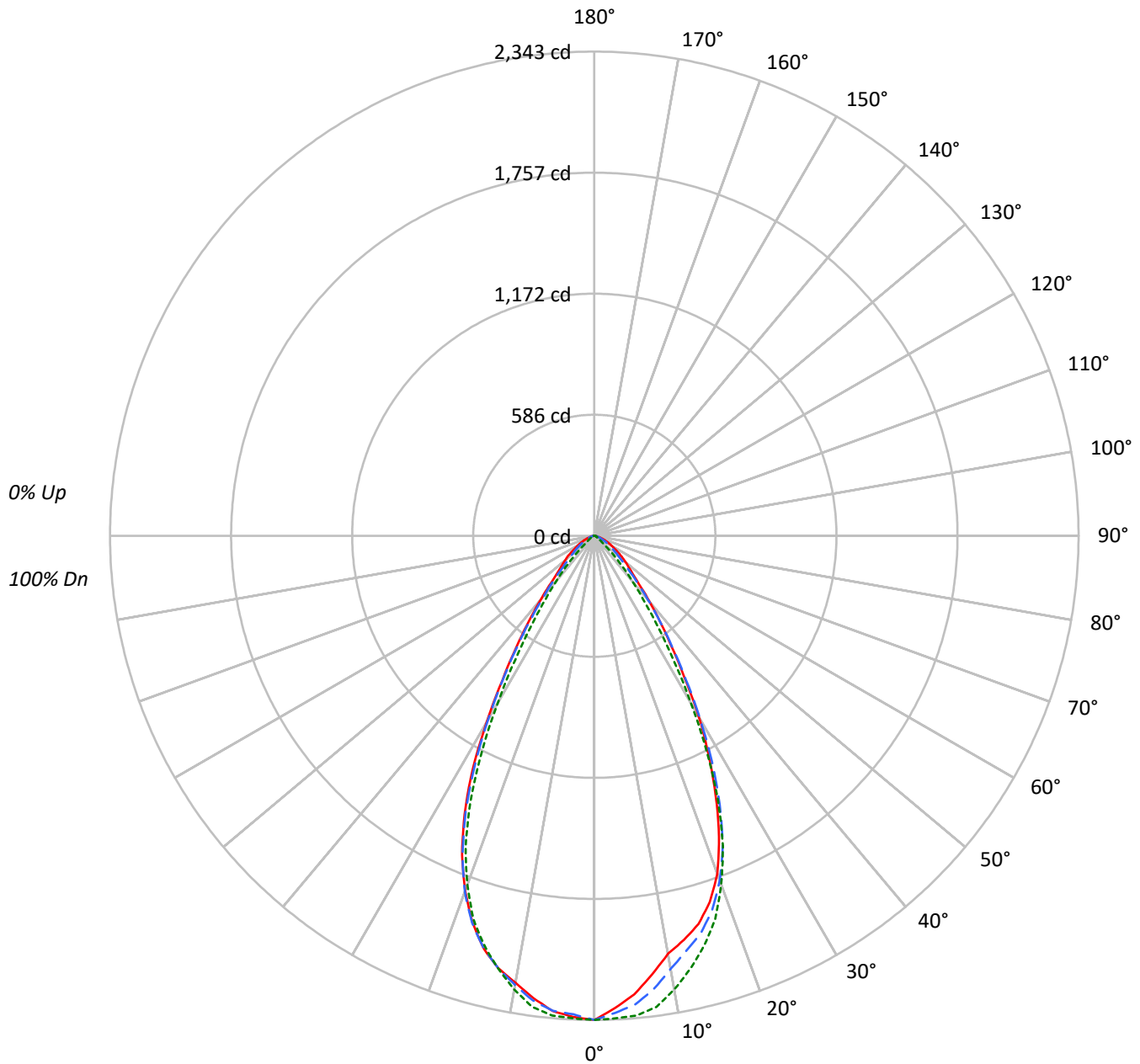
Lumens per Lamp: N/A
Luminaire Lumens: 2133.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857726

CATALOG NUMBER: LD4C35D010 EU4359030 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P857726

CATALOG NUMBER: LD4C35D010 EU4359030 4LBMDDWLI

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	30	10	50	30	10
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°	287858	287858	287858
5°	274677	287391	284715
10°	256184	278077	274010
15°	247379	261192	263036
20°	227562	234648	238911
25°	188610	192039	201365
30°	143476	132695	147590
35°	97140	79502	98235
40°	66154	45562	64133
45°	45902	22951	43383
50°	37346	9346	34919
55°	30222	5805	27523
60°	24006	4447	21794
65°	18924	3692	16831
70°	14296	3233	13003
75°	10300	2563	9446
80°	7712	2547	6367
85°	5075	2537	5075



TEST NUMBER: P857726

CATALOG NUMBER: LD4C35D010 EU4359030 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	10.1
10°-20°	566.0	26.5
20°-30°	649.4	30.4
30°-40°	394.5	18.5
40°-50°	169.1	7.9
50°-60°	81.1	3.8
60°-70°	39.4	1.8
70°-80°	14.6	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°	1430.9	67.1
0°-40°	1825.4	85.6
0°-60°	2075.6	97.3
0°-90°	2133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2133.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2343	2343	2343	2343	2343	
5°	2227	2276	2330	2307	2309	207
15°	1945	1990	2054	2066	2068	542
25°	1391	1437	1417	1471	1486	631
35°	648	657	530	640	655	415
45°	264	235	132	212	250	215
55°	141	105	27	94	128	127
65°	65	43	13	40	58	66
75°	22	14	5	13	20	24
85°	4	4	2	2	4	5
90°	0	0	0	0	0	



TEST NUMBER: P857726

CATALOG NUMBER: LD4C35D010 EU4359030 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1	2343.1
2.5°	2287.0	2312.3	2310.5	2332.2	2337.6	2332.2	2317.7	2332.2	2330.4
5°	2227.3	2256.2	2276.1	2312.3	2330.4	2326.8	2306.9	2310.5	2308.7
7.5°	2140.4	2176.6	2211.0	2265.3	2299.6	2297.8	2268.9	2263.5	2256.2
10°	2053.6	2088.0	2127.8	2183.8	2229.1	2236.3	2207.4	2200.1	2196.5
12.5°	2002.9	2030.1	2057.2	2106.0	2145.9	2160.3	2144.0	2145.9	2144.0
15°	1945.0	1972.2	1990.3	2026.4	2053.6	2073.5	2066.2	2077.1	2068.1
17.5°	1858.2	1890.7	1898.0	1925.1	1945.0	1957.7	1964.9	1975.8	1961.3
20°	1740.6	1765.9	1774.9	1785.8	1794.8	1811.1	1832.8	1843.7	1827.4
22.5°	1575.9	1624.8	1623.0	1617.5	1626.6	1632.0	1666.4	1684.5	1671.8
25°	1391.4	1442.0	1436.6	1414.9	1416.7	1427.6	1471.0	1494.5	1485.5
27.5°	1197.8	1244.8	1232.1	1190.5	1179.7	1196.0	1252.0	1279.2	1273.8
30°	1011.4	1042.2	1022.3	948.1	935.4	955.3	1027.7	1054.8	1040.4
32.5°	810.6	834.1	825.0	734.6	712.9	732.8	817.8	843.1	826.9
35°	647.7	669.4	656.8	550.0	530.1	551.8	640.5	669.4	655.0
37.5°	519.3	535.6	519.3	405.3	387.2	408.9	493.9	531.9	513.8
40°	412.5	425.2	403.5	298.5	284.1	294.9	374.5	412.5	399.9
42.5°	325.7	334.7	311.2	218.9	202.6	217.1	282.3	316.6	309.4
45°	264.2	264.2	235.2	152.0	132.1	146.6	211.7	247.9	249.7
47.5°	226.2	220.7	184.6	101.3	76.0	95.9	168.3	206.3	211.7
50°	195.4	188.2	152.0	74.2	48.9	68.8	139.3	177.3	182.7
52.5°	168.3	162.8	126.7	57.9	34.4	52.5	117.6	153.8	159.2
55°	141.1	137.5	104.9	45.2	27.1	39.8	94.1	124.8	128.5
57.5°	115.8	110.4	85.0	38.0	21.7	32.6	77.8	103.1	106.7
60°	97.7	92.3	68.8	30.8	18.1	25.3	63.3	85.0	88.7
62.5°	81.4	76.0	56.1	25.3	14.5	21.7	50.7	68.8	72.4
65°	65.1	61.5	43.4	19.9	12.7	16.3	39.8	54.3	57.9
67.5°	52.5	48.9	34.4	16.3	10.9	12.7	30.8	43.4	47.0
70°	39.8	36.2	25.3	12.7	9.0	10.9	23.5	32.6	36.2
72.5°	28.9	27.1	19.9	10.9	7.2	9.0	16.3	23.5	27.1
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	9.0	12.7	12.7
80°	10.9	9.0	7.2	3.6	3.6	3.6	5.4	9.0	9.0
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)