

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: P859638

Luminaire Tested: **LD4C08D010 EU4089030 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859638
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: LD4C08D010 EU4089030 4LBMDDWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

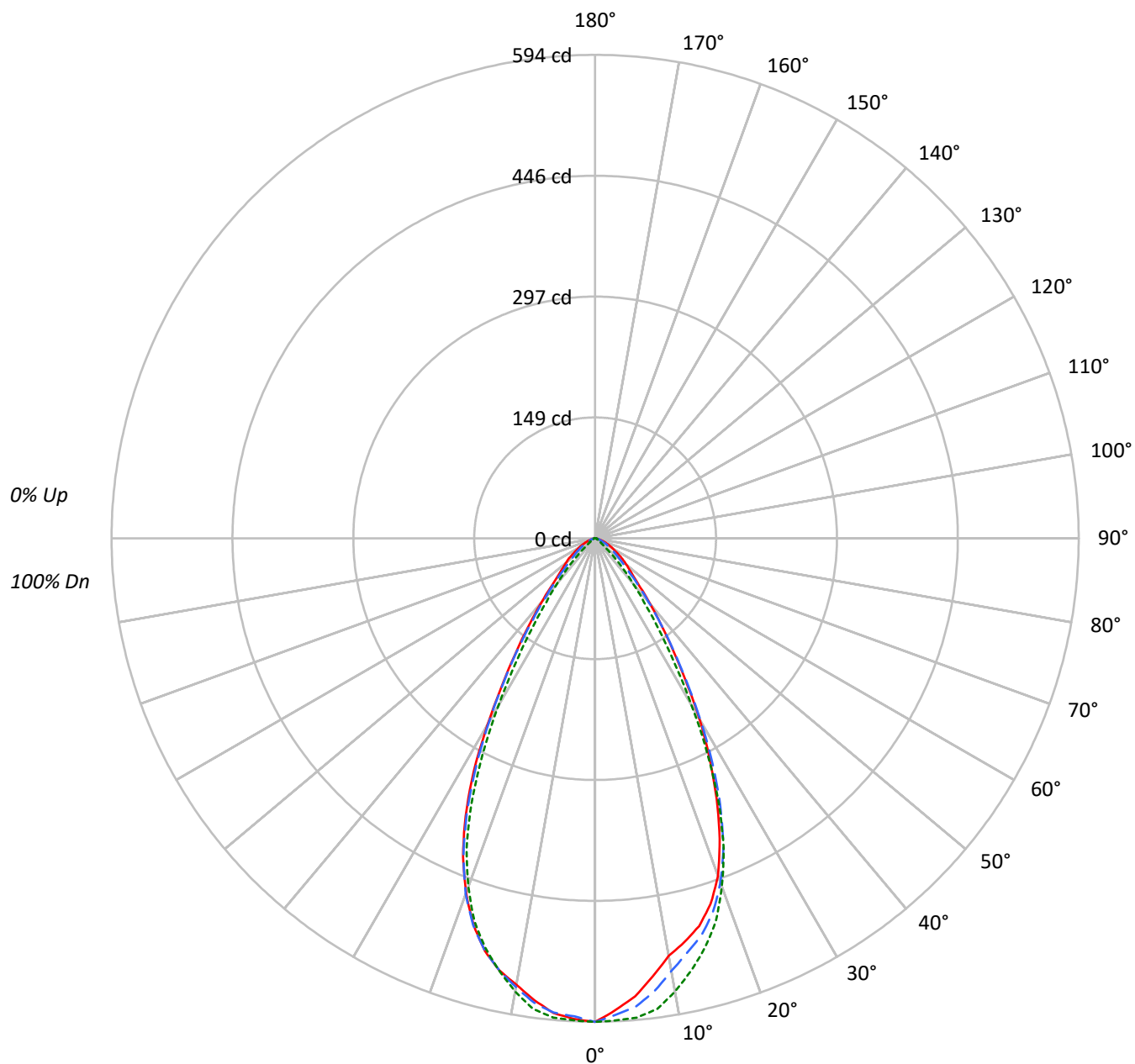
Lumens per Lamp: N/A
Luminaire Lumens: 541.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P859638

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859638

CATALOG NUMBER: LD4C08D010 EU4089030 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
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°	73012	73012	73012
5°	69665	72896	72218
10°	64982	70533	69497
15°	62741	66252	66710
20°	57721	59512	60597
25°	47837	48704	51077
30°	36387	33663	37437
35°	24641	20172	24911
40°	16775	11547	16262
45°	11641	5820	10998
50°	9480	2370	8849
55°	7668	1478	6983
60°	6094	1130	5528
65°	4796	930	4273
70°	3628	826	3305
75°	2611	665	2373
80°	1981	637	1627
85°	1269	705	1269



TEST NUMBER: P859638

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	10.1
10°-20°	143.6	26.5
20°-30°	164.7	30.4
30°-40°	100.1	18.5
40°-50°	42.9	7.9
50°-60°	20.6	3.8
60°-70°	10.0	1.8
70°-80°	3.7	0.7
80°-90°	0.9	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°	362.9	67.1
0°-40°	463.0	85.6
0°-60°	526.4	97.3
0°-90°	541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	594	594	594	594	594	
5°	565	577	591	585	586	52
15°	493	505	521	524	524	137
25°	353	364	359	373	377	160
35°	164	167	134	162	166	105
45°	67	60	34	54	63	54
55°	36	27	7	24	33	32
65°	16	11	3	10	15	17
75°	6	4	1	3	5	6
85°	1	1	0	0	1	1
90°	0	0	0	0	0	



TEST NUMBER: P859638

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3
2.5°	580.1	586.5	586.0	591.5	592.9	591.5	587.9	591.5	591.1
5°	564.9	572.3	577.3	586.5	591.1	590.2	585.1	586.0	585.6
7.5°	542.9	552.1	560.8	574.5	583.3	582.8	575.5	574.1	572.3
10°	520.9	529.6	539.7	553.9	565.4	567.2	559.9	558.0	557.1
12.5°	508.0	514.9	521.8	534.2	544.3	547.9	543.8	544.3	543.8
15°	493.3	500.2	504.8	514.0	520.9	525.9	524.1	526.8	524.5
17.5°	471.3	479.6	481.4	488.3	493.3	496.5	498.4	501.1	497.5
20°	441.5	447.9	450.2	452.9	455.2	459.4	464.9	467.6	463.5
22.5°	399.7	412.1	411.6	410.3	412.6	413.9	422.7	427.2	424.0
25°	352.9	365.7	364.4	358.9	359.3	362.1	373.1	379.1	376.8
27.5°	303.8	315.7	312.5	302.0	299.2	303.3	317.6	324.4	323.1
30°	256.5	264.3	259.3	240.5	237.3	242.3	260.7	267.5	263.9
32.5°	205.6	211.6	209.3	186.3	180.8	185.9	207.4	213.8	209.7
35°	164.3	169.8	166.6	139.5	134.5	140.0	162.5	169.8	166.1
37.5°	131.7	135.8	131.7	102.8	98.2	103.7	125.3	134.9	130.3
40°	104.6	107.8	102.3	75.7	72.0	74.8	95.0	104.6	101.4
42.5°	82.6	84.9	78.9	55.5	51.4	55.1	71.6	80.3	78.5
45°	67.0	67.0	59.7	38.5	33.5	37.2	53.7	62.9	63.3
47.5°	57.4	56.0	46.8	25.7	19.3	24.3	42.7	52.3	53.7
50°	49.6	47.7	38.5	18.8	12.4	17.4	35.3	45.0	46.3
52.5°	42.7	41.3	32.1	14.7	8.7	13.3	29.8	39.0	40.4
55°	35.8	34.9	26.6	11.5	6.9	10.1	23.9	31.7	32.6
57.5°	29.4	28.0	21.6	9.6	5.5	8.3	19.7	26.2	27.1
60°	24.8	23.4	17.4	7.8	4.6	6.4	16.1	21.6	22.5
62.5°	20.7	19.3	14.2	6.4	3.7	5.5	12.8	17.4	18.4
65°	16.5	15.6	11.0	5.0	3.2	4.1	10.1	13.8	14.7
67.5°	13.3	12.4	8.7	4.1	2.8	3.2	7.8	11.0	11.9
70°	10.1	9.2	6.4	3.2	2.3	2.8	6.0	8.3	9.2
72.5°	7.3	6.9	5.0	2.8	1.8	2.3	4.1	6.0	6.9
75°	5.5	5.0	3.7	1.8	1.4	1.8	3.2	4.6	5.0
77.5°	3.7	3.7	2.8	1.4	1.4	1.4	2.3	3.2	3.2
80°	2.8	2.3	1.8	0.9	0.9	0.9	1.4	2.3	2.3
82.5°	1.8	1.4	1.4	0.9	0.9	0.9	0.9	1.4	1.4
85°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)