

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: P859639

Luminaire Tested: **LD4C08D010 EU4089030 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859639
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 4LBMDSWGPH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

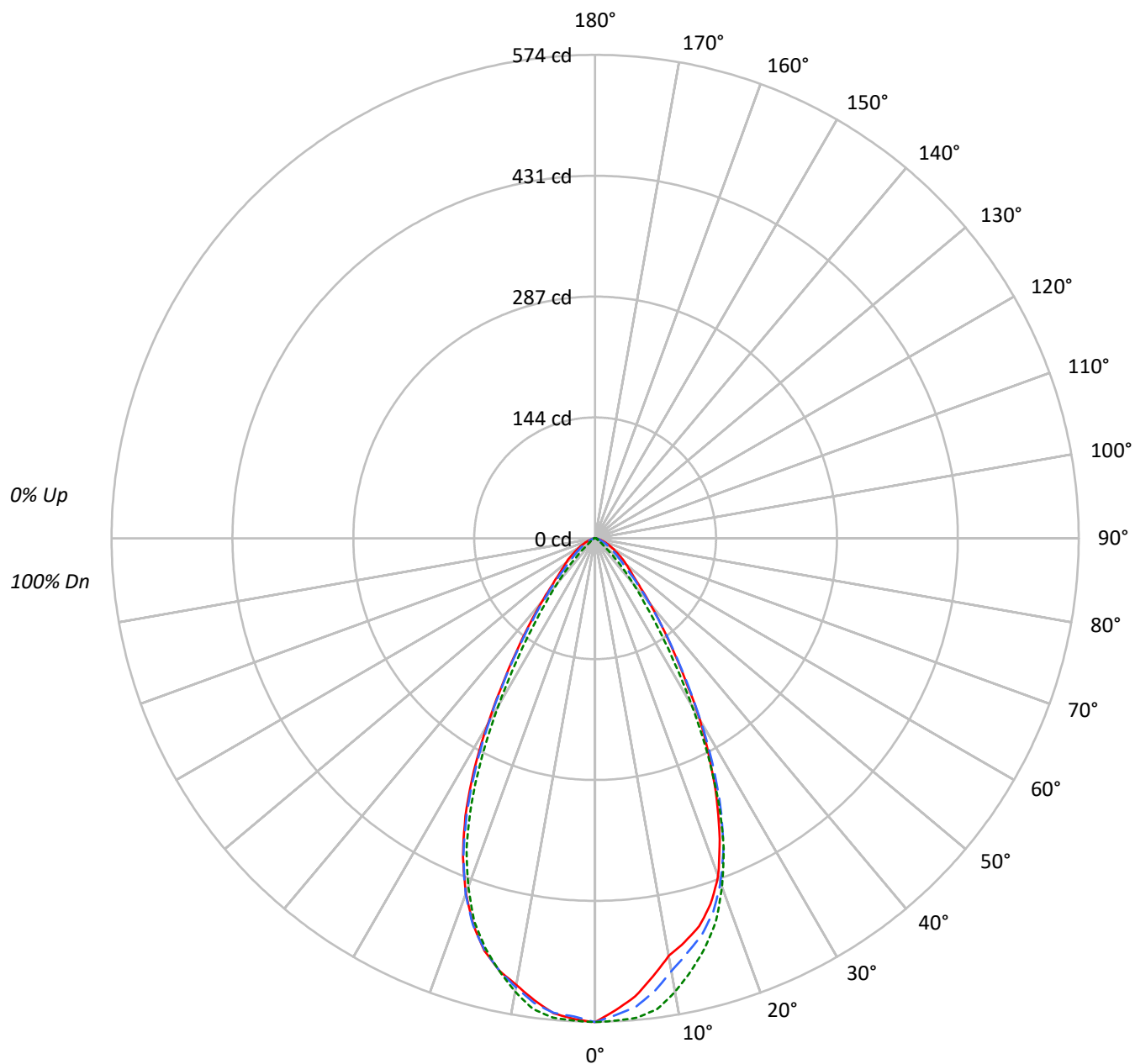
Lumens per Lamp: N/A
Luminaire Lumens: 523.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P859639

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWGPH

Luminous Intensity Polar Plot





TEST NUMBER: P859639

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWGPH

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°	70579	70579	70579
5°	67347	70467	69813
10°	62811	68188	67190
15°	60656	64039	64497
20°	55799	57538	58584
25°	46251	47091	49369
30°	35181	32542	36188
35°	23816	19497	24086
40°	16214	11178	15717
45°	11258	5629	10633
50°	9155	2294	8562
55°	7411	1435	6747
60°	5897	1081	5332
65°	4651	901	4128
70°	3520	790	3197
75°	2516	617	2326
80°	1910	637	1556
85°	1269	564	1269



TEST NUMBER: P859639

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWGPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	10.1
10°-20°	138.8	26.5
20°-30°	159.2	30.4
30°-40°	96.7	18.5
40°-50°	41.5	7.9
50°-60°	19.9	3.8
60°-70°	9.7	1.8
70°-80°	3.6	0.7
80°-90°	0.8	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°	350.8	67.1
0°-40°	447.6	85.6
0°-60°	508.9	97.3
0°-90°	523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	523.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	574	574	574	574	574	
5°	546	558	571	566	566	51
15°	477	488	504	507	507	133
25°	341	352	347	361	364	155
35°	159	161	130	157	161	102
45°	65	58	32	52	61	53
55°	35	26	7	23	32	31
65°	16	11	3	10	14	16
75°	5	4	1	3	5	6
85°	1	1	0	0	1	1
90°	0	0	0	0	0	



TEST NUMBER: P859639

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMSWGPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5
2.5°	560.8	567.0	566.5	571.8	573.2	571.8	568.3	571.8	571.4
5°	546.1	553.2	558.1	567.0	571.4	570.5	565.6	566.5	566.1
7.5°	524.8	533.7	542.1	555.4	563.9	563.4	556.3	555.0	553.2
10°	503.5	512.0	521.7	535.5	546.6	548.3	541.2	539.5	538.6
12.5°	491.1	497.8	504.4	516.4	526.2	529.7	525.7	526.2	525.7
15°	476.9	483.6	488.0	496.9	503.5	508.4	506.6	509.3	507.1
17.5°	455.6	463.6	465.4	472.0	476.9	480.0	481.8	484.4	480.9
20°	426.8	433.0	435.2	437.9	440.1	444.1	449.4	452.1	448.1
22.5°	386.4	398.4	397.9	396.6	398.8	400.2	408.6	413.0	409.9
25°	341.2	353.6	352.2	346.9	347.4	350.0	360.7	366.4	364.2
27.5°	293.7	305.2	302.1	291.9	289.3	293.2	307.0	313.7	312.3
30°	248.0	255.5	250.7	232.5	229.4	234.2	252.0	258.6	255.1
32.5°	198.7	204.5	202.3	180.1	174.8	179.7	200.5	206.7	202.7
35°	158.8	164.1	161.0	134.9	130.0	135.3	157.0	164.1	160.6
37.5°	127.3	131.3	127.3	99.4	94.9	100.3	121.1	130.4	126.0
40°	101.1	104.3	98.9	73.2	69.7	72.3	91.8	101.1	98.0
42.5°	79.9	82.1	76.3	53.7	49.7	53.2	69.2	77.6	75.9
45°	64.8	64.8	57.7	37.3	32.4	35.9	51.9	60.8	61.2
47.5°	55.5	54.1	45.3	24.8	18.6	23.5	41.3	50.6	51.9
50°	47.9	46.1	37.3	18.2	12.0	16.9	34.2	43.5	44.8
52.5°	41.3	39.9	31.1	14.2	8.4	12.9	28.8	37.7	39.0
55°	34.6	33.7	25.7	11.1	6.7	9.8	23.1	30.6	31.5
57.5°	28.4	27.1	20.9	9.3	5.3	8.0	19.1	25.3	26.2
60°	24.0	22.6	16.9	7.5	4.4	6.2	15.5	20.9	21.7
62.5°	20.0	18.6	13.8	6.2	3.5	5.3	12.4	16.9	17.7
65°	16.0	15.1	10.6	4.9	3.1	4.0	9.8	13.3	14.2
67.5°	12.9	12.0	8.4	4.0	2.7	3.1	7.5	10.6	11.5
70°	9.8	8.9	6.2	3.1	2.2	2.7	5.8	8.0	8.9
72.5°	7.1	6.7	4.9	2.7	1.8	2.2	4.0	5.8	6.7
75°	5.3	4.9	3.5	1.8	1.3	1.8	3.1	4.4	4.9
77.5°	3.5	3.5	2.7	1.3	1.3	1.3	2.2	3.1	3.1
80°	2.7	2.2	1.8	0.9	0.9	0.9	1.3	2.2	2.2
82.5°	1.8	1.3	1.3	0.9	0.9	0.9	0.9	1.3	1.3
85°	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.9	0.9
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)