

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: P859712

Luminaire Tested: **LD4C08D010 EU4089050 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859712
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 EU4089050 4LBMDSWWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

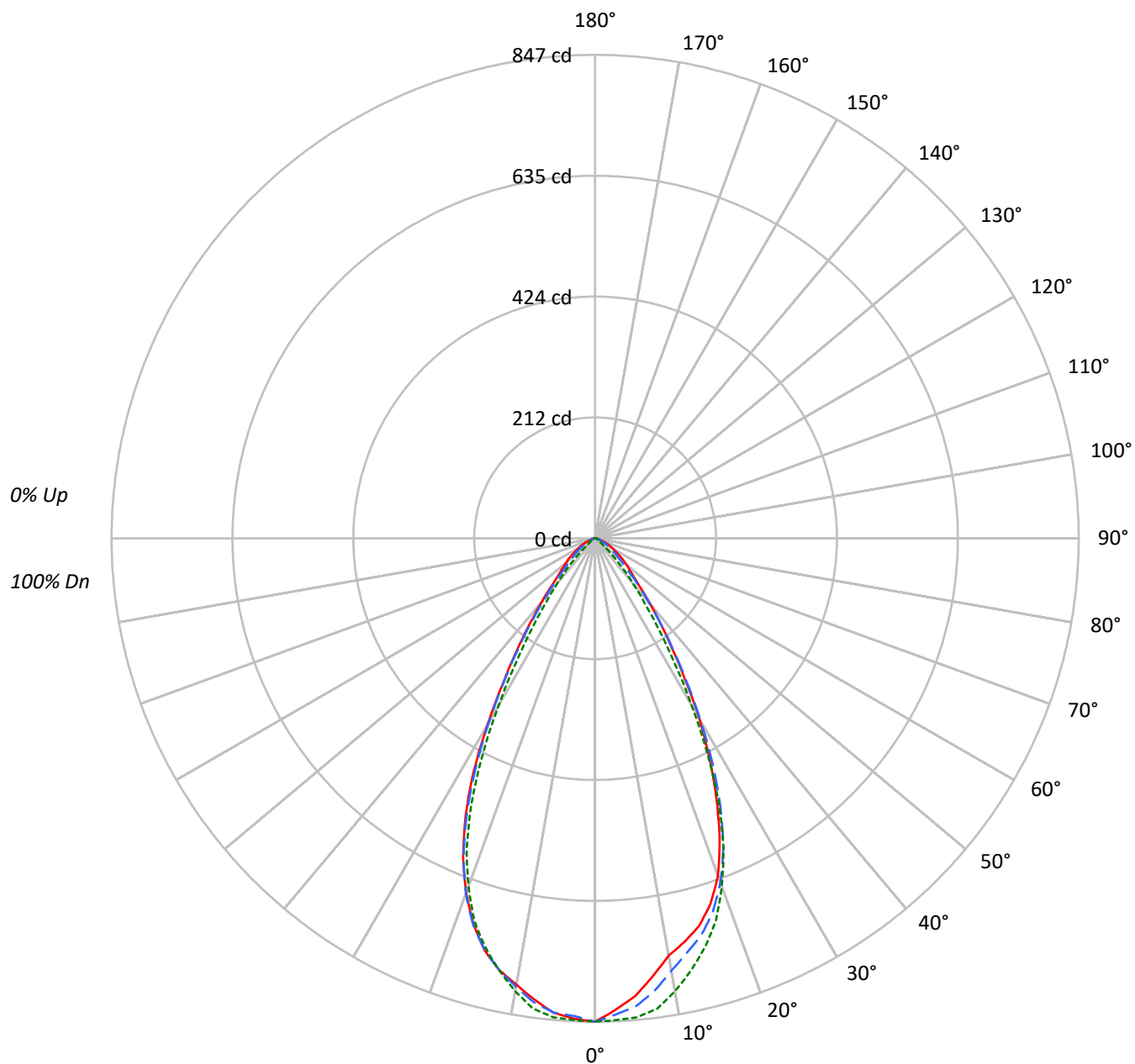
Lumens per Lamp: N/A
Luminaire Lumens: 771.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P859712

CATALOG NUMBER: LD4C08D010 EU4089050 4LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P859712

CATALOG NUMBER: LD4C08D010 EU4089050 4LBMDSWWH

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°	104045	104045	104045
5°	99287	103887	102913
10°	92601	100510	99050
15°	89425	94411	95072
20°	82247	84823	86352
25°	68170	69417	72779
30°	51864	47963	53353
35°	35109	28735	35499
40°	23912	16470	23174
45°	16592	8287	15689
50°	13494	3383	12633
55°	10924	2099	9938
60°	8673	1597	7863
65°	6831	1337	6076
70°	5172	1185	4706
75°	3702	949	3418
80°	2759	920	2335
85°	1832	987	1832



TEST NUMBER: P859712

CATALOG NUMBER: LD4C08D010 EU4089050 4LBMDSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	10.1
10°-20°	204.6	26.5
20°-30°	234.7	30.4
30°-40°	142.6	18.5
40°-50°	61.1	7.9
50°-60°	29.3	3.8
60°-70°	14.3	1.8
70°-80°	5.3	0.7
80°-90°	1.2	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°	517.2	67.1
0°-40°	659.8	85.6
0°-60°	750.2	97.3
0°-90°	771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	847	847	847	847	847	
5°	805	823	842	834	834	75
15°	703	719	742	747	748	196
25°	503	519	512	532	537	228
35°	234	237	192	232	237	150
45°	96	85	48	76	90	78
55°	51	38	10	34	46	46
65°	24	16	5	14	21	24
75°	8	5	2	5	7	9
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P859712

CATALOG NUMBER: LD4C08D010 EU4089050 4LBMSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9
2.5°	826.7	835.8	835.2	843.0	845.0	843.0	837.8	843.0	842.4
5°	805.1	815.5	822.7	835.8	842.4	841.0	833.9	835.2	834.5
7.5°	773.7	786.8	799.2	818.8	831.2	830.6	820.1	818.2	815.5
10°	742.3	754.7	769.1	789.4	805.7	808.3	797.9	795.3	794.0
12.5°	724.0	733.8	743.6	761.3	775.6	780.9	775.0	775.6	775.0
15°	703.1	712.9	719.4	732.5	742.3	749.5	746.9	750.8	747.5
17.5°	671.7	683.4	686.0	695.9	703.1	707.6	710.2	714.2	708.9
20°	629.1	638.3	641.6	645.5	648.8	654.7	662.5	666.4	660.5
22.5°	569.6	587.3	586.6	584.7	587.9	589.9	602.3	608.9	604.3
25°	502.9	521.2	519.3	511.4	512.1	516.0	531.7	540.2	536.9
27.5°	432.9	450.0	445.4	430.3	426.4	432.3	452.6	462.4	460.4
30°	365.6	376.7	369.5	342.7	338.1	345.3	371.5	381.3	376.1
32.5°	293.0	301.5	298.2	265.5	257.7	264.9	295.6	304.8	298.9
35°	234.1	242.0	237.4	198.8	191.6	199.5	231.5	242.0	236.7
37.5°	187.7	193.6	187.7	146.5	140.0	147.8	178.5	192.3	185.7
40°	149.1	153.7	145.8	107.9	102.7	106.6	135.4	149.1	144.5
42.5°	117.7	121.0	112.5	79.1	73.2	78.5	102.0	114.5	111.8
45°	95.5	95.5	85.0	54.9	47.7	53.0	76.5	89.6	90.3
47.5°	81.8	79.8	66.7	36.6	27.5	34.7	60.8	74.6	76.5
50°	70.6	68.0	54.9	26.8	17.7	24.9	50.4	64.1	66.1
52.5°	60.8	58.9	45.8	20.9	12.4	19.0	42.5	55.6	57.6
55°	51.0	49.7	37.9	16.4	9.8	14.4	34.0	45.1	46.4
57.5°	41.9	39.9	30.7	13.7	7.8	11.8	28.1	37.3	38.6
60°	35.3	33.4	24.9	11.1	6.5	9.2	22.9	30.7	32.0
62.5°	29.4	27.5	20.3	9.2	5.2	7.8	18.3	24.9	26.2
65°	23.5	22.2	15.7	7.2	4.6	5.9	14.4	19.6	20.9
67.5°	19.0	17.7	12.4	5.9	3.9	4.6	11.1	15.7	17.0
70°	14.4	13.1	9.2	4.6	3.3	3.9	8.5	11.8	13.1
72.5°	10.5	9.8	7.2	3.9	2.6	3.3	5.9	8.5	9.8
75°	7.8	7.2	5.2	2.6	2.0	2.6	4.6	6.5	7.2
77.5°	5.2	5.2	3.9	2.0	2.0	2.0	3.3	4.6	4.6
80°	3.9	3.3	2.6	1.3	1.3	1.3	2.0	3.3	3.3
82.5°	2.6	2.0	2.0	1.3	1.3	1.3	1.3	2.0	2.0
85°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)