

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: P859642

Luminaire Tested: **LD4C08D010 EU4089030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859642
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 4LBMDSWMW
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

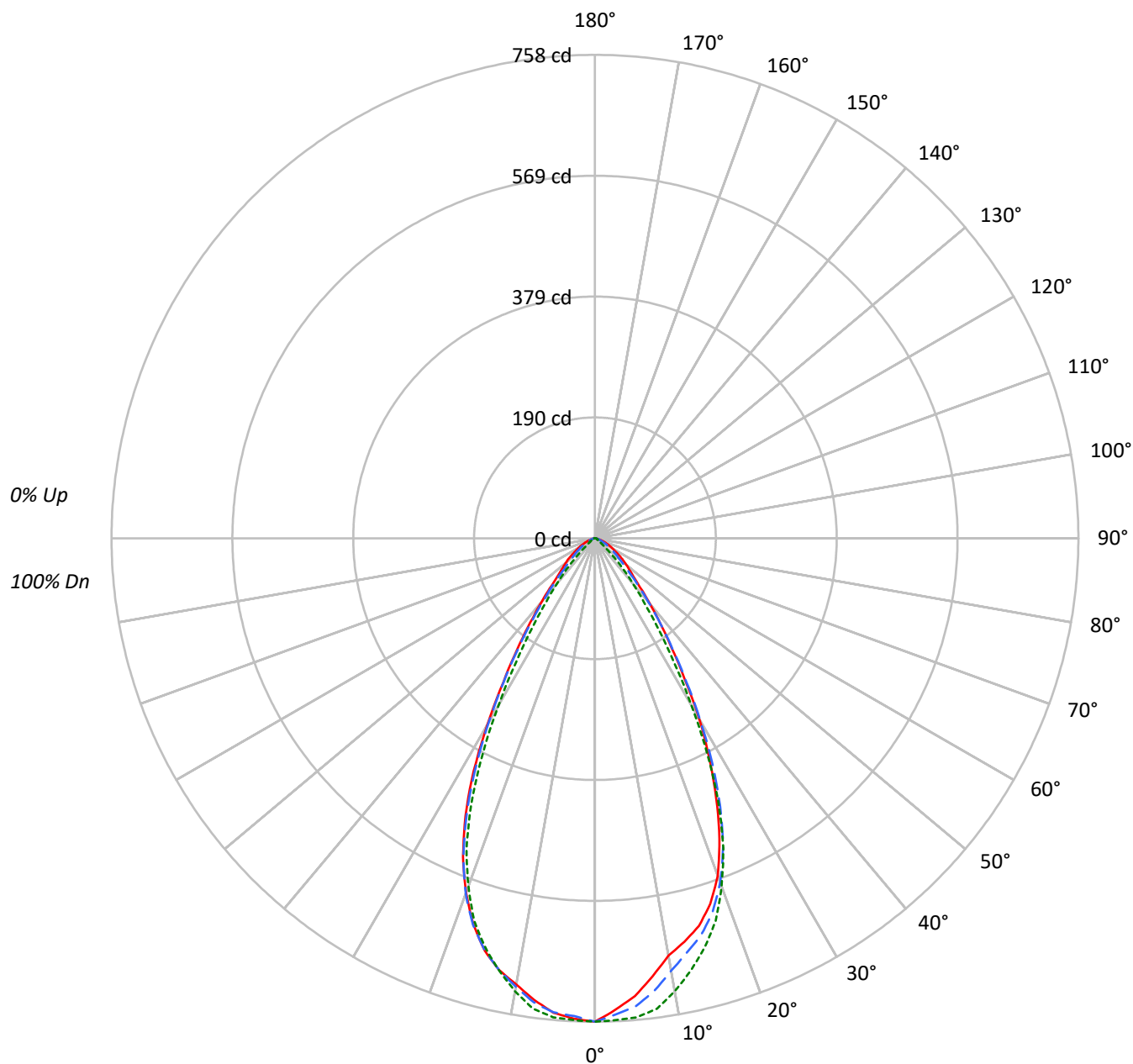
Lumens per Lamp: N/A
Luminaire Lumens: 690.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859642

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P859642

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWMW

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°	93123	93123	93123
5°	88854	92973	92097
10°	82871	89956	88634
15°	80026	84491	85088
20°	73619	75906	77279
25°	61013	62124	65134
30°	46416	42927	47736
35°	31420	25721	31780
40°	21394	14738	20736
45°	14855	7419	14038
50°	12079	3020	11296
55°	9788	1885	8910
60°	7764	1450	7052
65°	6134	1192	5436
70°	4634	1042	4203
75°	3323	854	3038
80°	2476	849	2052
85°	1692	846	1692



TEST NUMBER: P859642

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	10.1
10°-20°	183.1	26.5
20°-30°	210.1	30.4
30°-40°	127.6	18.5
40°-50°	54.7	7.9
50°-60°	26.2	3.8
60°-70°	12.8	1.8
70°-80°	4.7	0.7
80°-90°	1.1	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°	462.9	67.1
0°-40°	590.5	85.6
0°-60°	671.4	97.3
0°-90°	690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	720	736	754	746	747	67
15°	629	644	664	668	669	175
25°	450	465	458	476	480	204
35°	210	212	172	207	212	134
45°	86	76	43	68	81	69
55°	46	34	9	30	42	41
65°	21	14	4	13	19	21
75°	7	5	2	4	6	8
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P859642

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0	758.0
2.5°	739.8	748.0	747.4	754.4	756.2	754.4	749.8	754.4	753.9
5°	720.5	729.9	736.3	748.0	753.9	752.7	746.2	747.4	746.8
7.5°	692.4	704.1	715.2	732.8	743.9	743.3	734.0	732.2	729.9
10°	664.3	675.4	688.3	706.4	721.1	723.4	714.1	711.7	710.5
12.5°	647.9	656.7	665.5	681.3	694.2	698.8	693.6	694.2	693.6
15°	629.2	638.0	643.8	655.5	664.3	670.7	668.4	671.9	669.0
17.5°	601.1	611.6	614.0	622.8	629.2	633.3	635.6	639.1	634.5
20°	563.1	571.2	574.2	577.7	580.6	585.9	592.9	596.4	591.1
22.5°	509.8	525.6	525.0	523.3	526.2	527.9	539.1	544.9	540.8
25°	450.1	466.5	464.7	457.7	458.3	461.8	475.8	483.5	480.5
27.5°	387.5	402.7	398.6	385.1	381.6	386.9	405.0	413.8	412.0
30°	327.2	337.1	330.7	306.7	302.6	309.0	332.4	341.2	336.5
32.5°	262.2	269.8	266.9	237.6	230.6	237.0	264.6	272.7	267.5
35°	209.5	216.6	212.5	177.9	171.5	178.5	207.2	216.6	211.9
37.5°	168.0	173.2	168.0	131.1	125.3	132.3	159.8	172.1	166.2
40°	133.4	137.5	130.5	96.6	91.9	95.4	121.2	133.4	129.3
42.5°	105.4	108.3	100.7	70.8	65.6	70.2	91.3	102.4	100.1
45°	85.5	85.5	76.1	49.2	42.7	47.4	68.5	80.2	80.8
47.5°	73.2	71.4	59.7	32.8	24.6	31.0	54.4	66.7	68.5
50°	63.2	60.9	49.2	24.0	15.8	22.2	45.1	57.4	59.1
52.5°	54.4	52.7	41.0	18.7	11.1	17.0	38.0	49.7	51.5
55°	45.7	44.5	33.9	14.6	8.8	12.9	30.4	40.4	41.6
57.5°	37.5	35.7	27.5	12.3	7.0	10.5	25.2	33.4	34.5
60°	31.6	29.8	22.2	9.9	5.9	8.2	20.5	27.5	28.7
62.5°	26.3	24.6	18.1	8.2	4.7	7.0	16.4	22.2	23.4
65°	21.1	19.9	14.0	6.4	4.1	5.3	12.9	17.6	18.7
67.5°	17.0	15.8	11.1	5.3	3.5	4.1	9.9	14.0	15.2
70°	12.9	11.7	8.2	4.1	2.9	3.5	7.6	10.5	11.7
72.5°	9.4	8.8	6.4	3.5	2.3	2.9	5.3	7.6	8.8
75°	7.0	6.4	4.7	2.3	1.8	2.3	4.1	5.9	6.4
77.5°	4.7	4.7	3.5	1.8	1.8	1.8	2.9	4.1	4.1
80°	3.5	2.9	2.3	1.2	1.2	1.2	1.8	2.9	2.9
82.5°	2.3	1.8	1.8	1.2	1.2	1.2	1.2	1.8	1.8
85°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)