

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: P859709

Luminaire Tested: **LD4C08D010 EU4089050 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859709
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 4LBMDSWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

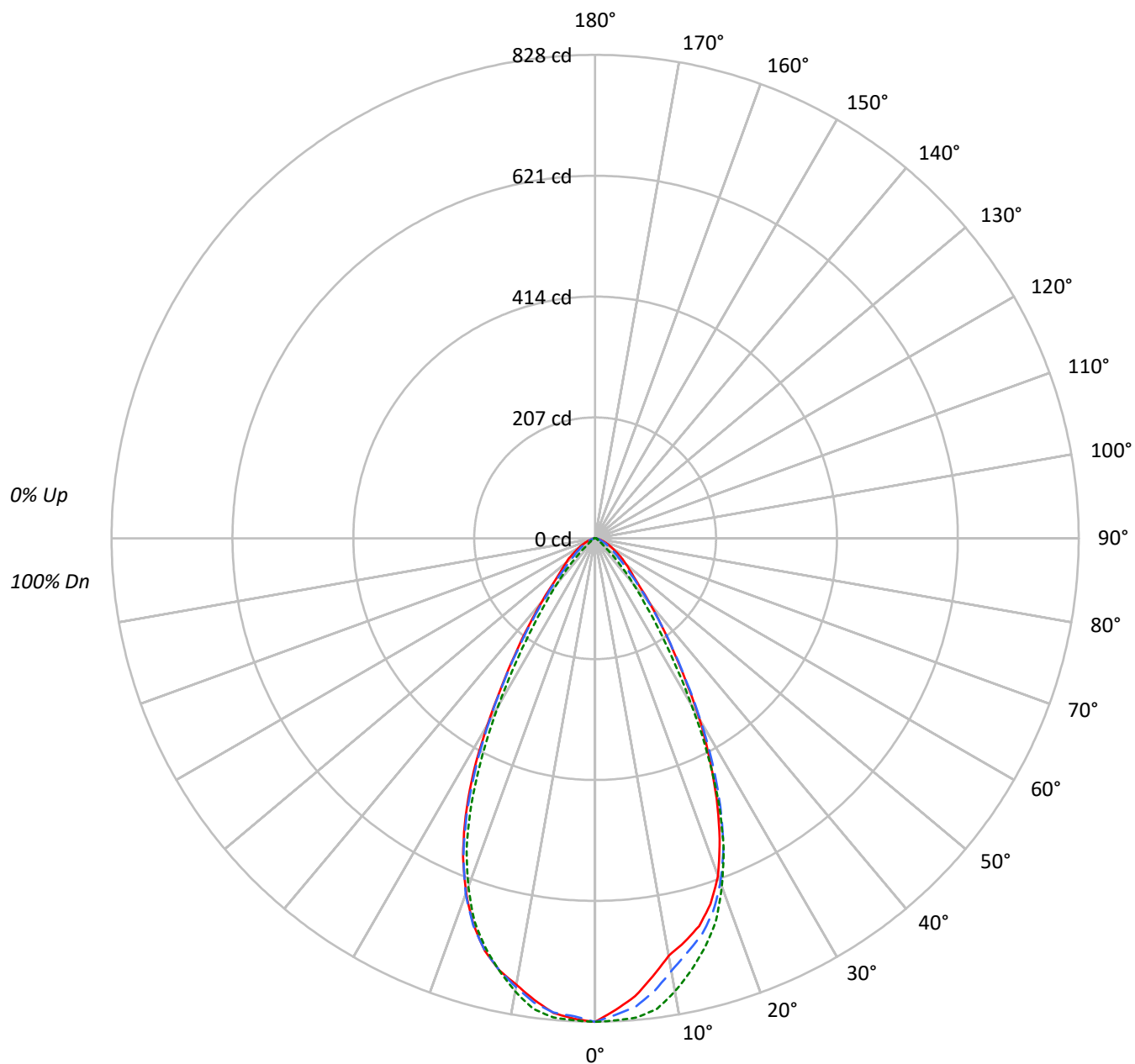
Lumens per Lamp: N/A
Luminaire Lumens: 754.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	101760	101760	101760
5°	97092	101593	100644
10°	90555	98302	96867
15°	87454	92325	92974
20°	80443	82953	84457
25°	66665	67885	71179
30°	50715	46913	52176
35°	34345	28106	34720
40°	23383	16102	22661
45°	16227	8114	15341
50°	13207	3306	12347
55°	10688	2056	9724
60°	8477	1573	7691
65°	6686	1308	5959
70°	5065	1149	4598
75°	3655	902	3323
80°	2688	920	2264
85°	1832	846	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	10.1
10°-20°	200.1	26.5
20°-30°	229.6	30.4
30°-40°	139.5	18.5
40°-50°	59.8	7.9
50°-60°	28.7	3.8
60°-70°	13.9	1.8
70°-80°	5.2	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°	505.8	67.1
0°-40°	645.3	85.6
0°-60°	733.7	97.3
0°-90°	754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	828	828	828	828	828	
5°	787	805	824	816	816	73
15°	688	704	726	730	731	191
25°	492	508	501	520	525	223
35°	229	232	187	226	232	147
45°	93	83	47	75	88	76
55°	50	37	10	33	45	45
65°	23	15	4	14	20	23
75°	8	5	2	4	7	8
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3
2.5°	808.4	817.4	816.7	824.4	826.3	824.4	819.3	824.4	823.8
5°	787.3	797.6	804.6	817.4	823.8	822.5	815.5	816.7	816.1
7.5°	756.6	769.4	781.6	800.8	812.9	812.3	802.0	800.1	797.6
10°	725.9	738.1	752.1	772.0	788.0	790.5	780.3	777.7	776.5
12.5°	708.0	717.6	727.2	744.5	758.5	763.7	757.9	758.5	757.9
15°	687.6	697.1	703.5	716.3	725.9	733.0	730.4	734.2	731.0
17.5°	656.9	668.4	670.9	680.5	687.6	692.0	694.6	698.4	693.3
20°	615.3	624.2	627.4	631.3	634.5	640.2	647.9	651.7	646.0
22.5°	557.1	574.3	573.7	571.8	575.0	576.9	589.1	595.5	591.0
25°	491.8	509.7	507.8	500.2	500.8	504.6	520.0	528.3	525.1
27.5°	423.4	440.0	435.6	420.8	417.0	422.8	442.6	452.2	450.3
30°	357.5	368.4	361.4	335.1	330.7	337.7	363.3	372.9	367.8
32.5°	286.5	294.8	291.6	259.7	252.0	259.0	289.1	298.0	292.3
35°	229.0	236.6	232.2	194.4	187.4	195.1	226.4	236.6	231.5
37.5°	183.6	189.3	183.6	143.3	136.9	144.5	174.6	188.0	181.6
40°	145.8	150.3	142.6	105.5	100.4	104.3	132.4	145.8	141.3
42.5°	115.1	118.3	110.0	77.4	71.6	76.7	99.8	111.9	109.4
45°	93.4	93.4	83.1	53.7	46.7	51.8	74.8	87.6	88.3
47.5°	79.9	78.0	65.2	35.8	26.9	33.9	59.5	72.9	74.8
50°	69.1	66.5	53.7	26.2	17.3	24.3	49.2	62.7	64.6
52.5°	59.5	57.6	44.8	20.5	12.2	18.5	41.6	54.4	56.3
55°	49.9	48.6	37.1	16.0	9.6	14.1	33.3	44.1	45.4
57.5°	40.9	39.0	30.1	13.4	7.7	11.5	27.5	36.5	37.7
60°	34.5	32.6	24.3	10.9	6.4	9.0	22.4	30.1	31.3
62.5°	28.8	26.9	19.8	9.0	5.1	7.7	17.9	24.3	25.6
65°	23.0	21.7	15.3	7.0	4.5	5.8	14.1	19.2	20.5
67.5°	18.5	17.3	12.2	5.8	3.8	4.5	10.9	15.3	16.6
70°	14.1	12.8	9.0	4.5	3.2	3.8	8.3	11.5	12.8
72.5°	10.2	9.6	7.0	3.8	2.6	3.2	5.8	8.3	9.6
75°	7.7	7.0	5.1	2.6	1.9	2.6	4.5	6.4	7.0
77.5°	5.1	5.1	3.8	1.9	1.9	1.9	3.2	4.5	4.5
80°	3.8	3.2	2.6	1.3	1.3	1.3	1.9	3.2	3.2
82.5°	2.6	1.9	1.9	1.3	1.3	1.3	1.3	1.9	1.9
85°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.3	1.3
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)