

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: P859662

Luminaire Tested: **LD4C08D010 EU4089035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859662
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 EU4089035 4LBMDSWGPH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

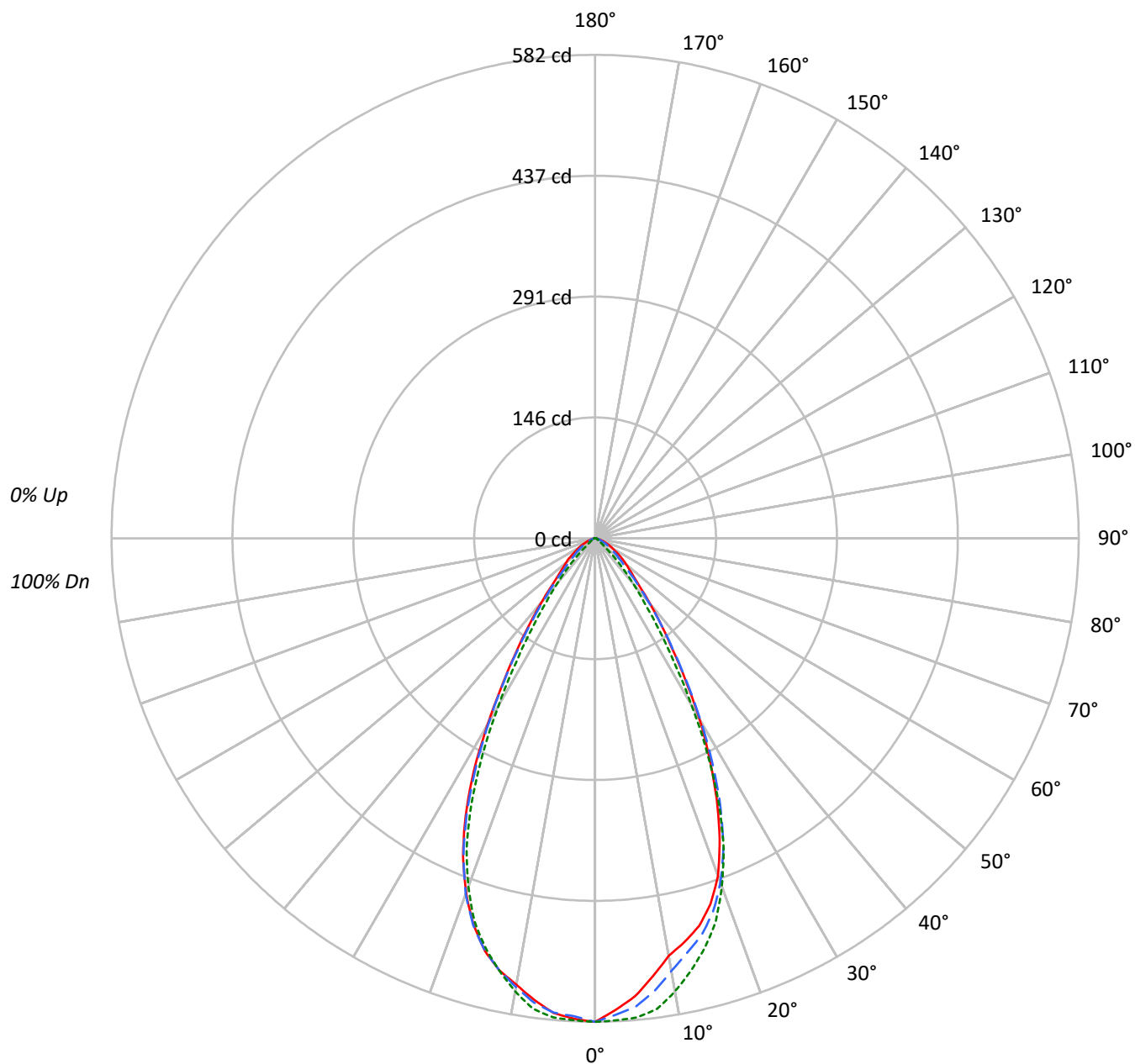
Lumens per Lamp: N/A
Luminaire Lumens: 529.9 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	76	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°	71525	71525	71525
5°	68247	71416	70750
10°	63659	69098	68088
15°	61470	64904	65362
20°	56544	58309	59368
25°	46861	47715	50033
30°	35649	32968	36671
35°	24131	19752	24401
40°	16438	11322	15941
45°	11397	5699	10772
50°	9289	2313	8677
55°	7518	1435	6833
60°	5971	1106	5406
65°	4709	901	4186
70°	3556	790	3233
75°	2563	617	2326
80°	1910	637	1556
85°	1269	564	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	10.1
10°-20°	140.6	26.5
20°-30°	161.4	30.5
30°-40°	98.0	18.5
40°-50°	42.0	7.9
50°-60°	20.1	3.8
60°-70°	9.8	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°	355.5	67.1
0°-40°	453.6	85.6
0°-60°	515.7	97.3
0°-90°	529.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	582	582	582	582	582	
5°	553	566	579	573	574	51
15°	483	494	510	513	514	135
25°	346	357	352	366	369	157
35°	161	163	132	159	163	103
45°	66	58	33	53	62	53
55°	35	26	7	23	32	32
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2
2.5°	568.3	574.6	574.1	579.5	580.8	579.5	575.9	579.5	579.1
5°	553.4	560.6	565.6	574.6	579.1	578.2	573.2	574.1	573.7
7.5°	531.8	540.8	549.4	562.9	571.4	571.0	563.8	562.4	560.6
10°	510.3	518.8	528.7	542.6	553.9	555.7	548.5	546.7	545.8
12.5°	497.7	504.4	511.2	523.3	533.2	536.8	532.7	533.2	532.7
15°	483.3	490.0	494.5	503.5	510.3	515.2	513.4	516.1	513.9
17.5°	461.7	469.8	471.6	478.3	483.3	486.4	488.2	490.9	487.3
20°	432.5	438.8	441.0	443.7	446.0	450.0	455.4	458.1	454.1
22.5°	391.6	403.7	403.3	401.9	404.2	405.5	414.1	418.6	415.4
25°	345.7	358.3	357.0	351.6	352.0	354.7	365.5	371.3	369.1
27.5°	297.6	309.3	306.2	295.8	293.1	297.2	311.1	317.8	316.5
30°	251.3	259.0	254.0	235.6	232.4	237.4	255.4	262.1	258.5
32.5°	201.4	207.3	205.0	182.5	177.1	182.1	203.2	209.5	205.5
35°	160.9	166.3	163.2	136.7	131.7	137.1	159.1	166.3	162.7
37.5°	129.0	133.1	129.0	100.7	96.2	101.6	122.7	132.2	127.7
40°	102.5	105.6	100.3	74.2	70.6	73.3	93.1	102.5	99.4
42.5°	80.9	83.2	77.3	54.4	50.4	53.9	70.1	78.7	76.9
45°	65.6	65.6	58.4	37.8	32.8	36.4	52.6	61.6	62.0
47.5°	56.2	54.8	45.9	25.2	18.9	23.8	41.8	51.3	52.6
50°	48.6	46.8	37.8	18.4	12.1	17.1	34.6	44.1	45.4
52.5°	41.8	40.5	31.5	14.4	8.5	13.0	29.2	38.2	39.6
55°	35.1	34.2	26.1	11.2	6.7	9.9	23.4	31.0	31.9
57.5°	28.8	27.4	21.1	9.4	5.4	8.1	19.3	25.6	26.5
60°	24.3	22.9	17.1	7.6	4.5	6.3	15.7	21.1	22.0
62.5°	20.2	18.9	13.9	6.3	3.6	5.4	12.6	17.1	18.0
65°	16.2	15.3	10.8	4.9	3.1	4.0	9.9	13.5	14.4
67.5°	13.0	12.1	8.5	4.0	2.7	3.1	7.6	10.8	11.7
70°	9.9	9.0	6.3	3.1	2.2	2.7	5.8	8.1	9.0
72.5°	7.2	6.7	4.9	2.7	1.8	2.2	4.0	5.8	6.7
75°	5.4	4.9	3.6	1.8	1.3	1.8	3.1	4.5	4.9
77.5°	3.6	3.6	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)