

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: P859685

Luminaire Tested: **LD4C08D010 EU4089040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859685
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 EU4089040 4LBMDSWGPH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

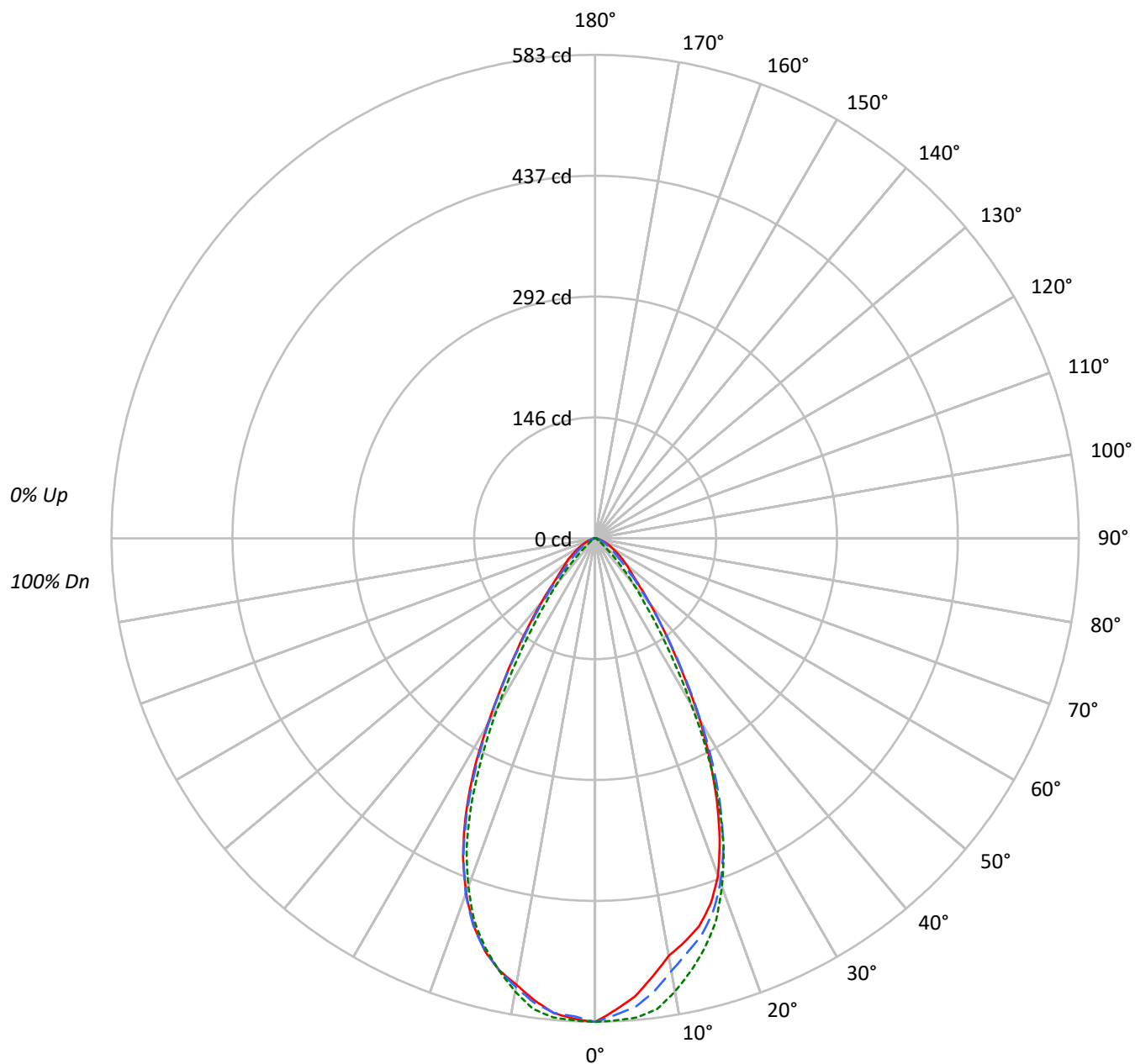
Lumens per Lamp: N/A
Luminaire Lumens: 531.1 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	71660	71660	71660
5°	68382	71540	70874
10°	63772	69223	68213
15°	61584	65018	65476
20°	56649	58414	59473
25°	46956	47810	50128
30°	35720	33039	36741
35°	24191	19797	24461
40°	16470	11338	15957
45°	11432	5716	10807
50°	9289	2332	8696
55°	7518	1456	6854
60°	5971	1106	5430
65°	4709	930	4186
70°	3556	826	3233
75°	2563	665	2373
80°	1910	637	1627
85°	1269	705	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	10.1
10°-20°	140.9	26.5
20°-30°	161.7	30.4
30°-40°	98.2	18.5
40°-50°	42.1	7.9
50°-60°	20.2	3.8
60°-70°	9.8	1.9
70°-80°	3.7	0.7
80°-90°	0.9	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°	356.2	67.1
0°-40°	454.4	85.6
0°-60°	516.7	97.3
0°-90°	531.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	583	583	583	583	583	
5°	554	567	580	574	575	52
15°	484	496	511	514	515	135
25°	346	358	353	366	370	157
35°	161	164	132	159	163	103
45°	66	59	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°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
2.5°	569.3	575.6	575.2	580.6	581.9	580.6	577.0	580.6	580.1
5°	554.5	561.7	566.6	575.6	580.1	579.2	574.3	575.2	574.7
7.5°	532.8	541.9	550.4	563.9	572.5	572.0	564.8	563.5	561.7
10°	511.2	519.8	529.7	543.7	554.9	556.7	549.5	547.7	546.8
12.5°	498.6	505.4	512.1	524.3	534.2	537.8	533.7	534.2	533.7
15°	484.2	491.0	495.5	504.5	511.2	516.2	514.4	517.1	514.8
17.5°	462.6	470.7	472.5	479.2	484.2	487.4	489.2	491.9	488.3
20°	433.3	439.6	441.9	444.6	446.8	450.9	456.3	459.0	454.9
22.5°	392.3	404.5	404.0	402.7	404.9	406.3	414.8	419.3	416.2
25°	346.4	359.0	357.6	352.2	352.7	355.4	366.2	372.0	369.8
27.5°	298.2	309.9	306.7	296.4	293.7	297.7	311.7	318.4	317.1
30°	251.8	259.4	254.5	236.0	232.9	237.8	255.8	262.6	259.0
32.5°	201.8	207.6	205.4	182.9	177.5	182.4	203.6	209.9	205.8
35°	161.3	166.7	163.5	136.9	132.0	137.4	159.4	166.7	163.1
37.5°	129.3	133.3	129.3	100.9	96.4	101.8	123.0	132.4	127.9
40°	102.7	105.8	100.4	74.3	70.7	73.4	93.2	102.7	99.5
42.5°	81.1	83.3	77.5	54.5	50.4	54.1	70.3	78.8	77.0
45°	65.8	65.8	58.6	37.8	32.9	36.5	52.7	61.7	62.2
47.5°	56.3	55.0	45.9	25.2	18.9	23.9	41.9	51.3	52.7
50°	48.6	46.8	37.8	18.5	12.2	17.1	34.7	44.1	45.5
52.5°	41.9	40.5	31.5	14.4	8.6	13.1	29.3	38.3	39.6
55°	35.1	34.2	26.1	11.3	6.8	9.9	23.4	31.1	32.0
57.5°	28.8	27.5	21.2	9.5	5.4	8.1	19.4	25.7	26.6
60°	24.3	23.0	17.1	7.7	4.5	6.3	15.8	21.2	22.1
62.5°	20.3	18.9	14.0	6.3	3.6	5.4	12.6	17.1	18.0
65°	16.2	15.3	10.8	5.0	3.2	4.1	9.9	13.5	14.4
67.5°	13.1	12.2	8.6	4.1	2.7	3.2	7.7	10.8	11.7
70°	9.9	9.0	6.3	3.2	2.3	2.7	5.9	8.1	9.0
72.5°	7.2	6.8	5.0	2.7	1.8	2.3	4.1	5.9	6.8
75°	5.4	5.0	3.6	1.8	1.4	1.8	3.2	4.5	5.0
77.5°	3.6	3.6	2.7	1.4	1.4	1.4	2.3	3.2	3.2
80°	2.7	2.3	1.8	0.9	0.9	0.9	1.4	2.3	2.3
82.5°	1.8	1.4	1.4	0.9	0.9	0.9	0.9	1.4	1.4
85°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)