

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: P799238

Luminaire Tested: **LD6C08D010 EU6089027 6LBMDSWGPH**

Issue Date: 4/12/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P799238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C08D010 EU6089027 6LBMDSWGPH  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

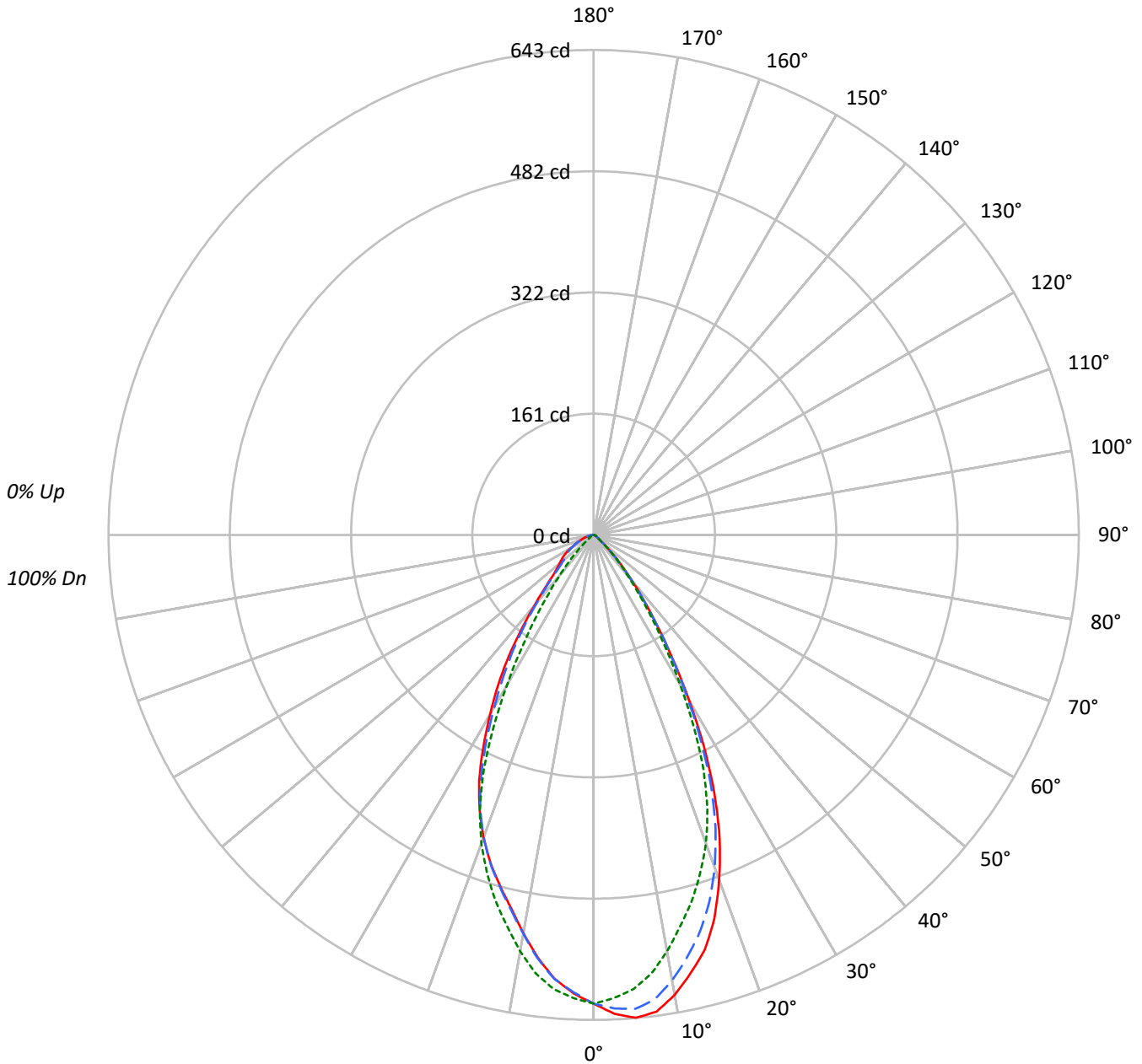
Lumens per Lamp: N/A  
Luminaire Lumens: 535.0 lumens  
Efficiency: N/A  
Efficacy: 54.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59	59	59	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52	52	52	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49	49	49	49

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	34065	34065	34065
5°	35362	33265	32511
10°	34457	31201	29831
15°	32316	28513	27282
20°	28370	25383	24899
25°	22943	20850	21715
30°	15952	14528	17376
35°	9831	8901	13117
40°	5560	4988	8709
45°	2698	2574	5946
50°	1032	1032	5049
55°	564	669	4664
60°	417	526	3815
65°	350	454	3126
70°	305	385	2581
75°	275	402	2224
80°	158	347	1610
85°	189	692	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	10.6
10°-20°	143.0	26.7
20°-30°	161.0	30.1
30°-40°	99.7	18.6
40°-50°	39.7	7.4
50°-60°	18.1	3.4
60°-70°	10.4	1.9
70°-80°	4.9	0.9
80°-90°	1.4	0.3
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°	360.8	67.4
0°-40°	460.5	86.1
0°-60°	518.2	96.9
0°-90°	535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	621	621	621	621	621	
5°	643	631	604	591	591	61
15°	569	545	502	482	481	158
25°	379	369	345	353	359	171
35°	147	146	133	185	196	94
45°	35	35	33	72	77	30
55°	6	6	7	43	49	6
65°	3	2	4	24	24	3
75°	1	1	2	10	10	1
85°	0	0	1	2	2	0
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°	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4
2.5°	635.6	629.7	628.4	623.3	614.7	609.9	606.9	604.8	608.5
5°	642.6	636.1	630.8	620.3	604.5	595.7	591.4	587.9	590.8
7.5°	637.5	628.4	621.1	606.7	586.5	572.9	567.0	563.0	565.6
10°	619.0	608.0	599.7	582.5	560.5	544.2	537.0	533.2	535.9
12.5°	594.9	585.7	573.1	554.4	530.8	513.6	508.3	505.3	506.4
15°	569.4	558.7	544.7	526.0	502.4	485.2	482.0	480.1	480.7
17.5°	532.4	521.9	509.9	491.6	469.9	456.0	456.0	454.7	455.5
20°	486.3	480.7	468.9	453.6	435.1	422.5	426.5	425.2	426.8
22.5°	436.4	432.1	421.9	409.3	393.8	383.9	392.7	392.5	394.6
25°	379.3	376.1	369.1	358.4	344.7	338.6	353.3	353.3	359.0
27.5°	316.3	313.1	308.3	299.2	287.9	286.0	307.7	310.4	316.6
30°	252.0	249.8	247.2	238.9	229.5	233.0	263.0	267.5	274.5
32.5°	194.6	193.3	192.5	185.0	176.7	188.2	222.5	228.4	235.4
35°	146.9	144.0	146.1	140.5	133.0	147.4	185.2	190.3	196.0
37.5°	108.3	106.2	108.0	104.0	97.3	113.1	148.8	152.0	155.8
40°	77.7	75.9	77.5	75.1	69.7	84.4	116.6	120.1	121.7
42.5°	55.2	52.0	53.6	51.7	49.1	63.5	91.7	94.9	95.4
45°	34.8	33.8	34.8	33.8	33.2	47.2	72.4	75.3	76.7
47.5°	21.2	19.8	19.8	19.3	19.8	34.8	59.8	64.1	66.2
50°	12.1	11.5	11.3	11.0	12.1	27.3	51.7	56.6	59.2
52.5°	8.0	7.8	7.8	7.5	8.8	23.1	46.6	50.9	53.6
55°	5.9	5.6	5.6	5.6	7.0	19.8	42.9	46.4	48.8
57.5°	4.6	4.6	4.6	4.3	5.9	16.9	38.3	40.2	42.1
60°	3.8	3.5	3.5	3.5	4.8	14.5	33.0	33.8	34.8
62.5°	2.9	2.9	2.9	2.9	4.0	12.9	28.4	28.4	29.0
65°	2.7	2.4	2.4	2.4	3.5	11.3	23.9	23.6	24.1
67.5°	2.1	2.1	2.1	2.1	2.9	9.7	19.6	19.3	19.8
70°	1.9	1.9	1.9	1.9	2.4	8.0	15.8	15.5	16.1
72.5°	1.6	1.6	1.6	1.6	2.1	6.7	12.6	12.6	12.9
75°	1.3	1.3	1.3	1.3	1.9	5.1	10.2	10.2	10.5
77.5°	1.1	1.1	1.1	1.1	1.3	4.0	7.8	7.5	7.5
80°	0.5	0.8	0.8	0.8	1.1	2.9	5.6	5.1	5.1
82.5°	0.3	0.5	0.5	0.5	1.1	2.1	3.8	3.5	3.5
85°	0.3	0.3	0.3	0.8	1.1	1.6	2.4	2.4	2.4
87.5°	0.0	0.3	0.5	1.1	1.3	1.3	1.6	1.3	1.3
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)