

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: P799289

Luminaire Tested: **LD6C08D010 EU6089050 6LBMDSWMW**

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: P799289
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 EU6089050 6LBMDSWMW
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

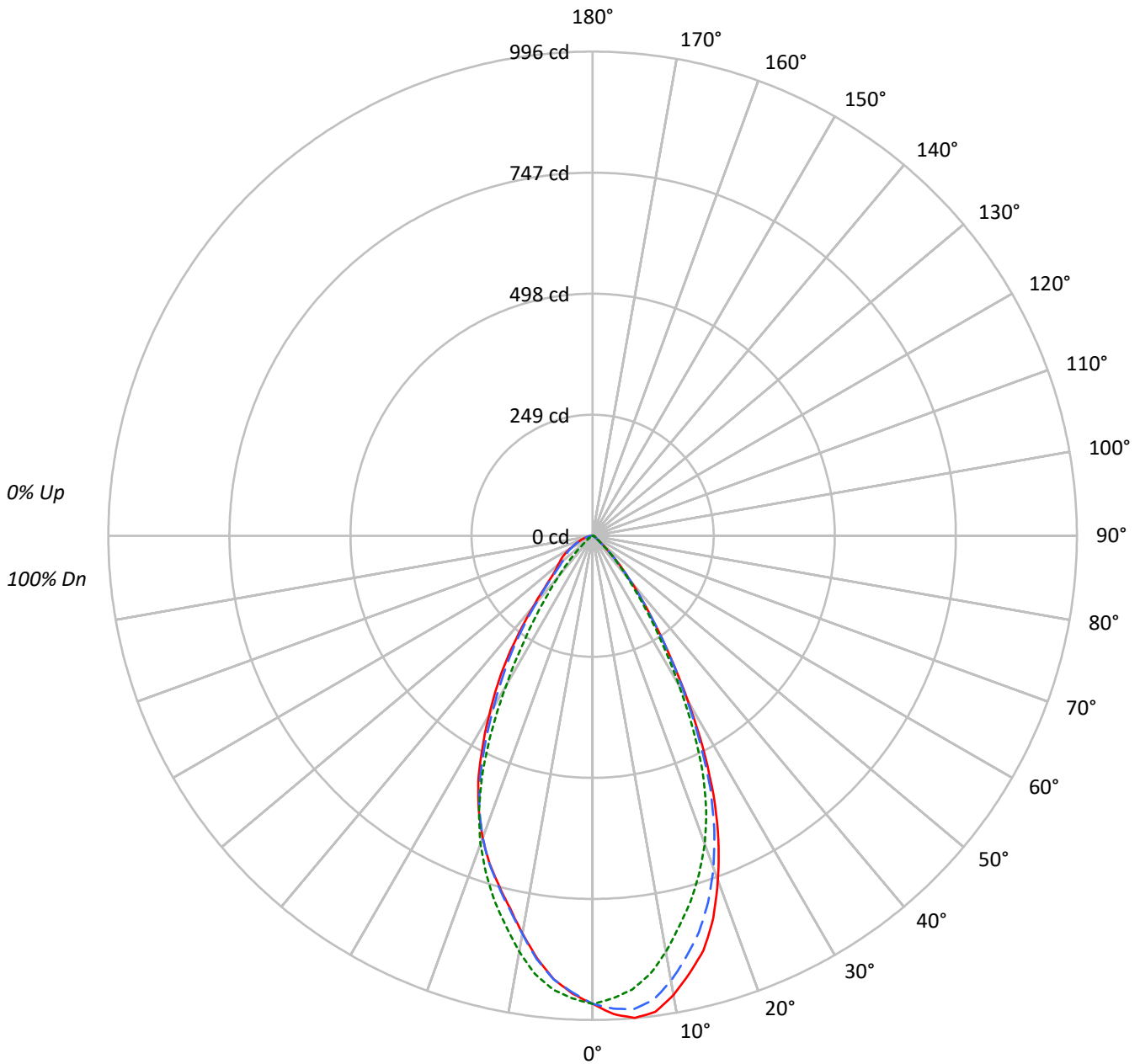
Lumens per Lamp: N/A
Luminaire Lumens: 829.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
RC	80									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																			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52786	52786	52786
5°	54793	51546	50380
10°	53389	48351	46225
15°	50074	44177	42270
20°	43958	39332	38579
25°	35554	32312	33643
30°	24719	22510	26928
35°	15232	13786	20318
40°	8623	7729	13497
45°	4186	3993	9210
50°	1595	1595	7829
55°	870	1032	7226
60°	636	822	5921
65°	545	700	4851
70°	465	593	3991
75°	445	614	3431
80°	253	537	2494
85°	252	1069	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	10.6
10°-20°	221.6	26.7
20°-30°	249.4	30.1
30°-40°	154.4	18.6
40°-50°	61.5	7.4
50°-60°	28.0	3.4
60°-70°	16.1	1.9
70°-80°	7.6	0.9
80°-90°	2.2	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°	559.1	67.4
0°-40°	713.5	86.1
0°-60°	803.0	96.9
0°-90°	829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	963	963	963	963	963	
5°	996	977	937	916	916	94
15°	882	844	778	747	745	244
25°	588	572	534	548	556	264
35°	228	226	206	287	304	146
45°	54	54	52	112	119	46
55°	9	9	11	66	76	9
65°	4	4	5	37	37	4
75°	2	2	3	16	16	2
85°	0	0	2	4	4	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°	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9
2.5°	984.9	975.8	973.7	965.8	952.5	945.0	940.4	937.1	942.9
5°	995.7	985.7	977.4	961.2	936.7	923.0	916.3	910.9	915.5
7.5°	987.8	973.7	962.5	940.0	908.9	887.7	878.5	872.3	876.5
10°	959.1	942.1	929.2	902.6	868.6	843.2	832.0	826.2	830.4
12.5°	921.7	907.6	888.1	859.0	822.5	795.9	787.6	783.0	784.7
15°	882.3	865.7	844.1	815.0	778.4	751.9	746.9	744.0	744.8
17.5°	825.0	808.8	790.1	761.8	728.2	706.6	706.6	704.5	705.7
20°	753.5	744.8	726.5	702.8	674.2	654.7	660.9	658.8	661.3
22.5°	676.3	669.6	653.8	634.3	610.2	594.8	608.5	608.1	611.5
25°	587.8	582.8	572.0	555.4	534.2	524.6	547.5	547.5	556.2
27.5°	490.2	485.2	477.7	463.6	446.1	443.2	476.9	481.0	490.6
30°	390.5	387.1	383.0	370.1	355.6	361.0	407.5	414.6	425.4
32.5°	301.6	299.5	298.2	286.6	273.7	291.6	344.8	353.9	364.7
35°	227.6	223.1	226.4	217.7	206.0	228.5	287.0	294.9	303.6
37.5°	167.8	164.5	167.4	161.2	150.8	175.3	230.5	235.5	241.3
40°	120.5	117.6	120.0	116.3	108.0	130.8	180.7	186.1	188.6
42.5°	85.6	80.6	83.1	80.2	76.0	98.4	142.1	147.0	147.9
45°	54.0	52.3	54.0	52.3	51.5	73.1	112.2	116.7	118.8
47.5°	32.8	30.7	30.7	29.9	30.7	54.0	92.6	99.3	102.6
50°	18.7	17.9	17.4	17.0	18.7	42.4	80.2	87.6	91.8
52.5°	12.5	12.0	12.0	11.6	13.7	35.7	72.3	78.9	83.1
55°	9.1	8.7	8.7	8.7	10.8	30.7	66.5	71.9	75.6
57.5°	7.1	7.1	7.1	6.6	9.1	26.2	59.4	62.3	65.2
60°	5.8	5.4	5.4	5.4	7.5	22.4	51.1	52.3	54.0
62.5°	4.6	4.6	4.6	4.6	6.2	19.9	44.0	44.0	44.9
65°	4.2	3.7	3.7	3.7	5.4	17.4	37.0	36.6	37.4
67.5°	3.3	3.3	3.3	3.3	4.6	15.0	30.3	29.9	30.7
70°	2.9	2.9	2.9	2.9	3.7	12.5	24.5	24.1	24.9
72.5°	2.5	2.5	2.5	2.5	3.3	10.4	19.5	19.5	19.9
75°	2.1	2.1	2.1	2.1	2.9	7.9	15.8	15.8	16.2
77.5°	1.7	1.7	1.7	1.7	2.1	6.2	12.0	11.6	11.6
80°	0.8	1.2	1.2	1.2	1.7	4.6	8.7	7.9	7.9
82.5°	0.4	0.8	0.8	0.8	1.7	3.3	5.8	5.4	5.4
85°	0.4	0.4	0.4	1.2	1.7	2.5	3.7	3.7	3.7
87.5°	0.0	0.4	0.8	1.7	2.1	2.1	2.5	2.1	2.1
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)