

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: P799299

Luminaire Tested: **LD6C10D010 EU6109027 6LBMDSWH**

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: P799299
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: LD6C10D010 EU6109027 6LBMDSWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

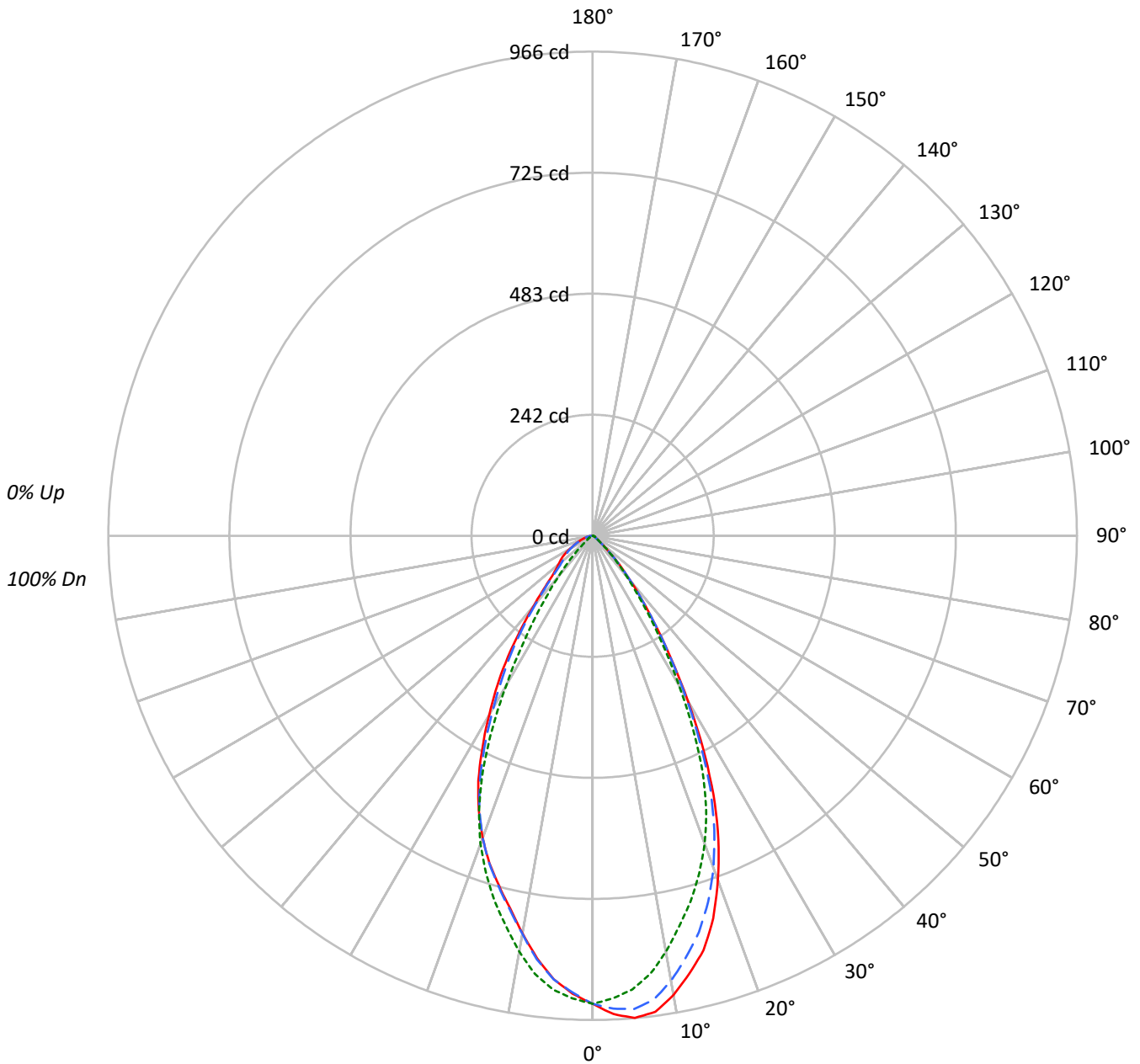
Lumens per Lamp: N/A
Luminaire Lumens: 804.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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°	51191	51191	51191
5°	53142	49994	48861
10°	51780	46893	44828
15°	48564	42849	40993
20°	42634	38142	37418
25°	34484	31339	32627
30°	23972	21832	26112
35°	14777	13371	19709
40°	8359	7493	13089
45°	4062	3876	8931
50°	1544	1544	7590
55°	851	1004	7006
60°	614	800	5745
65°	519	675	4709
70°	449	577	3879
75°	424	593	3325
80°	253	505	2431
85°	252	1006	2264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	10.6
10°-20°	214.9	26.7
20°-30°	241.9	30.1
30°-40°	149.8	18.6
40°-50°	59.6	7.4
50°-60°	27.2	3.4
60°-70°	15.6	1.9
70°-80°	7.4	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°	542.2	67.4
0°-40°	692.0	86.1
0°-60°	778.8	96.9
0°-90°	804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	804.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	934	934	934	934	934	
5°	966	948	908	889	888	91
15°	856	819	755	724	722	237
25°	570	555	518	531	539	256
35°	221	220	200	278	294	142
45°	52	52	50	109	115	44
55°	9	8	10	64	73	9
65°	4	4	5	36	36	4
75°	2	2	3	15	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°	933.8	933.8	933.8	933.8	933.8	933.8	933.8	933.8	933.8
2.5°	955.2	946.3	944.3	936.7	923.8	916.5	912.1	908.9	914.5
5°	965.7	956.0	947.9	932.2	908.5	895.2	888.7	883.5	887.9
7.5°	958.0	944.3	933.4	911.7	881.5	860.9	852.1	846.0	850.0
10°	930.2	913.7	901.2	875.4	842.4	817.8	806.9	801.3	805.3
12.5°	894.0	880.3	861.3	833.1	797.7	771.9	763.8	759.4	761.0
15°	855.7	839.6	818.6	790.4	755.0	729.2	724.3	721.5	722.3
17.5°	800.1	784.4	766.2	738.9	706.2	685.3	685.3	683.3	684.5
20°	730.8	722.3	704.6	681.6	653.8	634.9	641.0	638.9	641.4
22.5°	655.9	649.4	634.1	615.2	591.8	576.9	590.2	589.8	593.0
25°	570.1	565.2	554.7	538.6	518.1	508.8	531.0	531.0	539.4
27.5°	475.4	470.5	463.3	449.6	432.7	429.9	462.5	466.5	475.8
30°	378.7	375.5	371.4	359.0	344.9	350.1	395.2	402.1	412.5
32.5°	292.5	290.5	289.3	278.0	265.5	282.8	334.4	343.2	353.7
35°	220.8	216.3	219.6	211.1	199.8	221.6	278.4	286.0	294.5
37.5°	162.8	159.5	162.4	156.3	146.2	170.0	223.6	228.4	234.1
40°	116.8	114.0	116.4	112.8	104.7	126.9	175.2	180.5	182.9
42.5°	83.0	78.2	80.6	77.8	73.7	95.5	137.8	142.6	143.4
45°	52.4	50.8	52.4	50.8	50.0	70.9	108.8	113.2	115.2
47.5°	31.8	29.8	29.8	29.0	29.8	52.4	89.8	96.3	99.5
50°	18.1	17.3	16.9	16.5	18.1	41.1	77.8	85.0	89.0
52.5°	12.1	11.7	11.7	11.3	13.3	34.6	70.1	76.5	80.6
55°	8.9	8.5	8.5	8.5	10.5	29.8	64.5	69.7	73.3
57.5°	6.8	6.8	6.8	6.4	8.9	25.4	57.6	60.4	63.2
60°	5.6	5.2	5.2	5.2	7.3	21.8	49.6	50.8	52.4
62.5°	4.4	4.4	4.4	4.4	6.0	19.3	42.7	42.7	43.5
65°	4.0	3.6	3.6	3.6	5.2	16.9	35.9	35.5	36.3
67.5°	3.2	3.2	3.2	3.2	4.4	14.5	29.4	29.0	29.8
70°	2.8	2.8	2.8	2.8	3.6	12.1	23.8	23.4	24.2
72.5°	2.4	2.4	2.4	2.4	3.2	10.1	18.9	18.9	19.3
75°	2.0	2.0	2.0	2.0	2.8	7.7	15.3	15.3	15.7
77.5°	1.6	1.6	1.6	1.6	2.0	6.0	11.7	11.3	11.3
80°	0.8	1.2	1.2	1.2	1.6	4.4	8.5	7.7	7.7
82.5°	0.4	0.8	0.8	0.8	1.6	3.2	5.6	5.2	5.2
85°	0.4	0.4	0.4	1.2	1.6	2.4	3.6	3.6	3.6
87.5°	0.0	0.4	0.8	1.6	2.0	2.0	2.4	2.0	2.0
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)