

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: P799335

Luminaire Tested: **LD6C10D010 EU6109040 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: P799335
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 EU6109040 6LBMDSWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

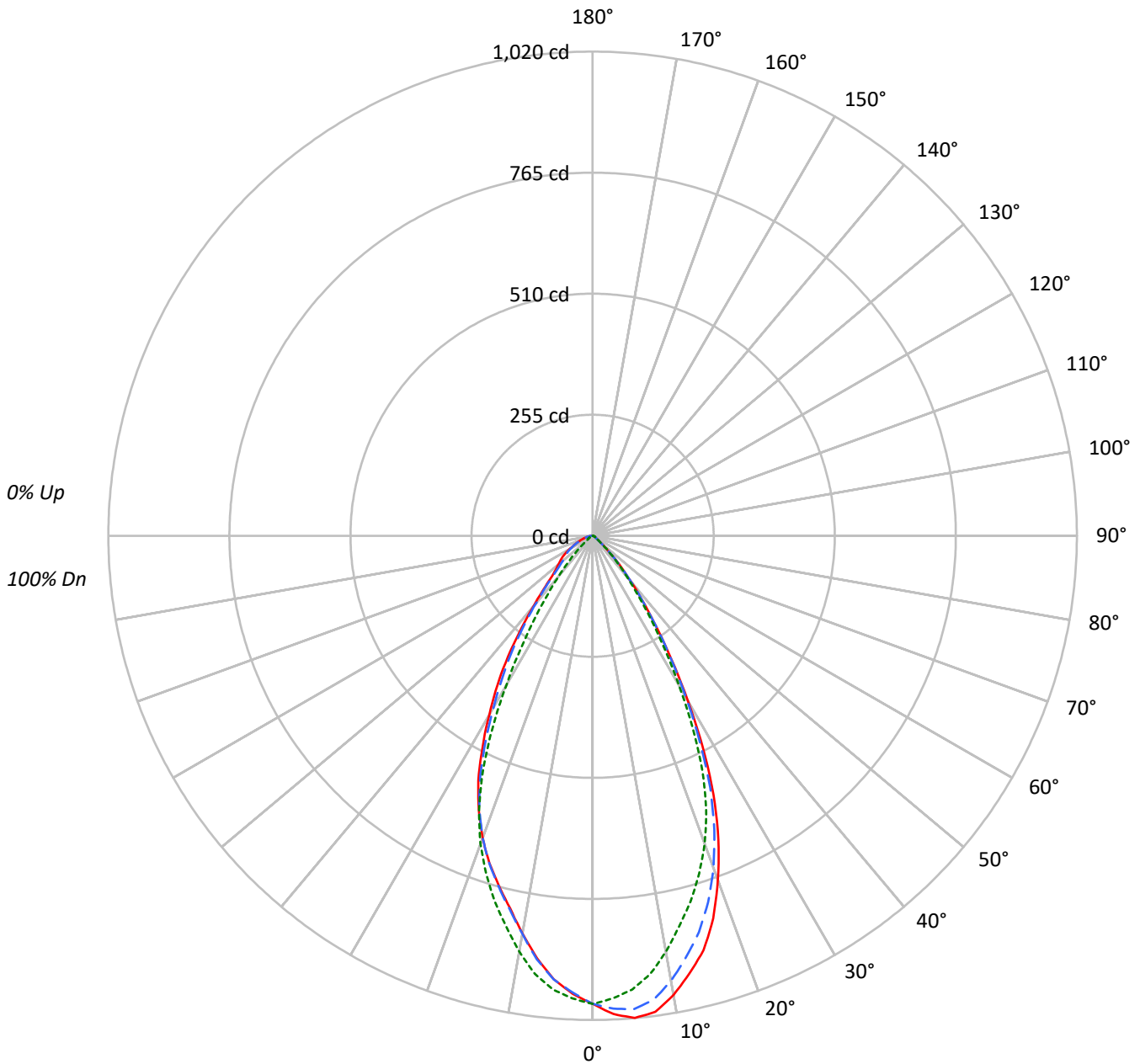
Lumens per Lamp: N/A
Luminaire Lumens: 849.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	54058	54058	54058
5°	56114	52790	51596
10°	54681	49515	47338
15°	51283	45244	43292
20°	45020	40277	39513
25°	36413	33093	34454
30°	25314	23054	27574
35°	15600	14121	20813
40°	8831	7915	13819
45°	4287	4093	9435
50°	1629	1629	8017
55°	898	1061	7398
60°	658	844	6063
65°	558	713	4968
70°	481	609	4087
75°	445	635	3516
80°	284	537	2557
85°	252	1069	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	10.6
10°-20°	226.9	26.7
20°-30°	255.4	30.1
30°-40°	158.2	18.6
40°-50°	63.0	7.4
50°-60°	28.7	3.4
60°-70°	16.5	1.9
70°-80°	7.8	0.9
80°-90°	2.3	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°	572.6	67.4
0°-40°	730.7	86.1
0°-60°	822.4	96.9
0°-90°	849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	986	986	986	986	986	
5°	1020	1001	959	938	938	96
15°	904	864	797	765	763	250
25°	602	586	547	561	570	271
35°	233	232	211	294	311	150
45°	55	55	53	115	122	47
55°	9	9	11	68	77	9
65°	4	4	6	38	38	4
75°	2	2	3	16	17	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°	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1
2.5°	1008.6	999.3	997.2	989.1	975.5	967.8	963.1	959.7	965.7
5°	1019.7	1009.5	1001.0	984.4	959.3	945.3	938.5	932.9	937.6
7.5°	1011.6	997.2	985.7	962.7	930.8	909.1	899.7	893.4	897.6
10°	982.3	964.8	951.6	924.4	889.5	863.6	852.1	846.1	850.4
12.5°	944.0	929.5	909.5	879.7	842.3	815.1	806.6	801.9	803.6
15°	903.6	886.6	864.4	834.7	797.2	770.0	764.9	761.9	762.8
17.5°	844.9	828.3	809.1	780.2	745.7	723.6	723.6	721.5	722.8
20°	771.7	762.8	744.0	719.8	690.4	670.4	676.8	674.7	677.3
22.5°	692.6	685.8	669.6	649.6	624.9	609.2	623.2	622.8	626.2
25°	602.0	596.9	585.8	568.8	547.1	537.3	560.7	560.7	569.6
27.5°	502.0	496.9	489.2	474.8	456.9	453.9	488.4	492.6	502.4
30°	399.9	396.5	392.2	379.0	364.2	369.7	417.3	424.6	435.6
32.5°	308.8	306.7	305.4	293.5	280.3	298.6	353.1	362.5	373.5
35°	233.1	228.4	231.8	222.9	211.0	234.0	294.0	302.0	311.0
37.5°	171.9	168.5	171.4	165.1	154.4	179.5	236.1	241.2	247.2
40°	123.4	120.4	122.9	119.1	110.6	134.0	185.1	190.6	193.1
42.5°	87.6	82.5	85.1	82.1	77.9	100.8	145.5	150.6	151.4
45°	55.3	53.6	55.3	53.6	52.8	74.9	114.9	119.5	121.7
47.5°	33.6	31.5	31.5	30.6	31.5	55.3	94.9	101.7	105.1
50°	19.1	18.3	17.9	17.4	19.1	43.4	82.1	89.8	94.0
52.5°	12.8	12.3	12.3	11.9	14.0	36.6	74.0	80.8	85.1
55°	9.4	8.9	8.9	8.9	11.1	31.5	68.1	73.6	77.4
57.5°	7.2	7.2	7.2	6.8	9.4	26.8	60.8	63.8	66.8
60°	6.0	5.5	5.5	5.5	7.7	23.0	52.3	53.6	55.3
62.5°	4.7	4.7	4.7	4.7	6.4	20.4	45.1	45.1	45.9
65°	4.3	3.8	3.8	3.8	5.5	17.9	37.9	37.4	38.3
67.5°	3.4	3.4	3.4	3.4	4.7	15.3	31.1	30.6	31.5
70°	3.0	3.0	3.0	3.0	3.8	12.8	25.1	24.7	25.5
72.5°	2.6	2.6	2.6	2.6	3.4	10.6	20.0	20.0	20.4
75°	2.1	2.1	2.1	2.1	3.0	8.1	16.2	16.2	16.6
77.5°	1.7	1.7	1.7	1.7	2.1	6.4	12.3	11.9	11.9
80°	0.9	1.3	1.3	1.3	1.7	4.7	8.9	8.1	8.1
82.5°	0.4	0.9	0.9	0.9	1.7	3.4	6.0	5.5	5.5
85°	0.4	0.4	0.4	1.3	1.7	2.6	3.8	3.8	3.8
87.5°	0.0	0.4	0.9	1.7	2.1	2.1	2.6	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)