

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: P799824

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDDWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C50D010 EU6509050 6LBMDDWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

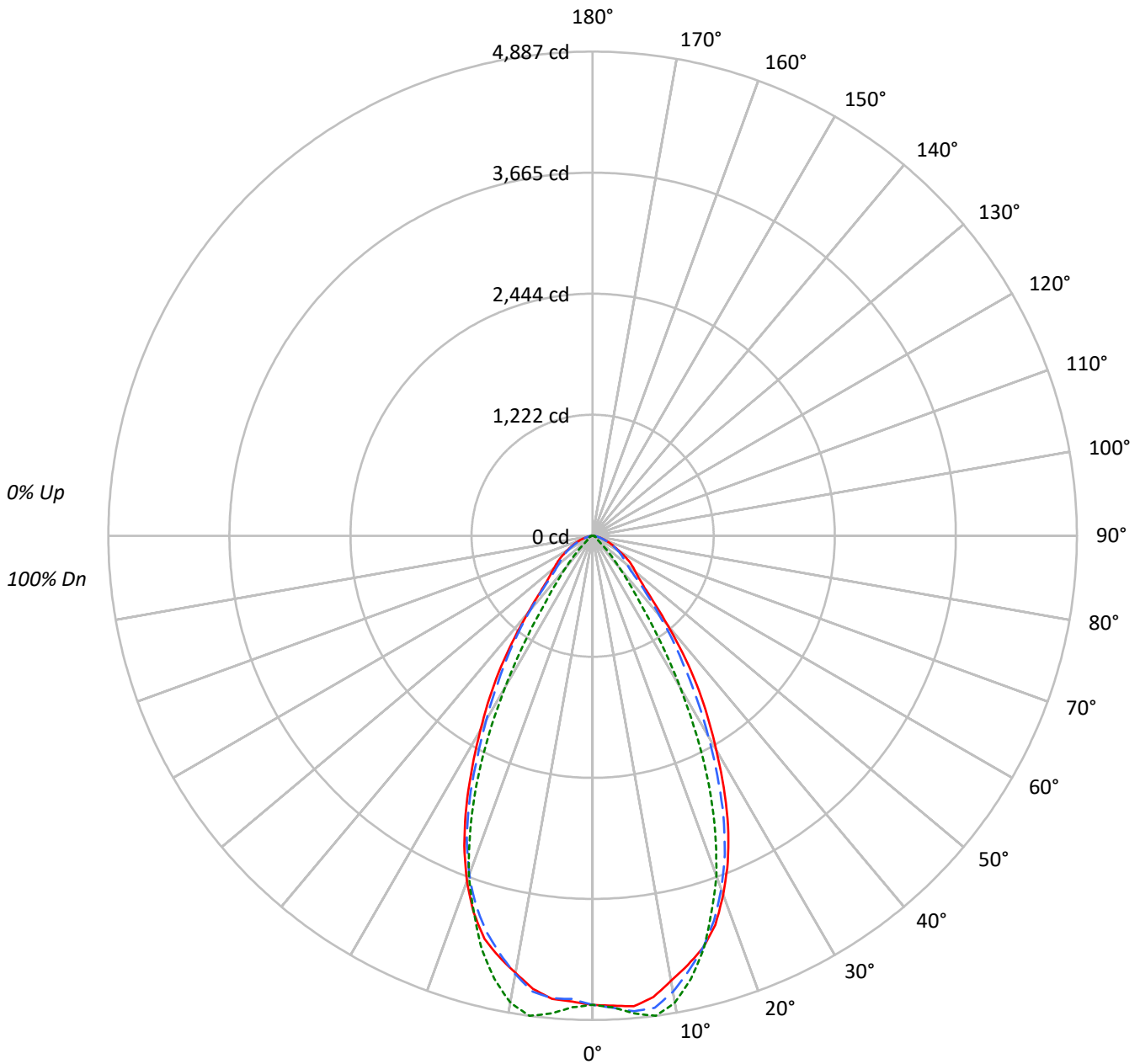
Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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

TEST NUMBER: P799824

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWWH

Luminous Intensity Polar Plot





TEST NUMBER: P799824

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWWH

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			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	259601	259601	259601
5°	262315	266294	258204
10°	253820	266289	249394
15°	244286	245245	239093
20°	224830	213029	216400
25°	195671	167986	182267
30°	157809	111612	143174
35°	122349	57547	107519
40°	83943	29820	72400
45°	57518	14940	50796
50°	47862	6371	43547
55°	43047	5524	38909
60°	34065	5285	32486
65°	28122	4683	27811
70°	22776	4248	22776
75°	16839	4596	17855
80°	9881	3788	10639
85°	7548	4529	7548



TEST NUMBER: P799824

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.8	9.4
10°-20°	1183.1	24.5
20°-30°	1350.5	28.0
30°-40°	895.6	18.6
40°-50°	432.0	9.0
50°-60°	265.7	5.5
60°-70°	160.8	3.3
70°-80°	67.6	1.4
80°-90°	14.9	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°	2984.4	61.9
0°-40°	3880.0	80.5
0°-60°	4577.6	95.0
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4736	4736	4736	4736	4736	
5°	4767	4817	4839	4685	4692	448
15°	4304	4304	4321	4138	4213	1199
25°	3235	3126	2777	2939	3013	1467
35°	1828	1611	860	1503	1607	1131
45°	742	650	193	607	655	605
55°	450	366	58	366	407	396
65°	217	207	36	195	214	218
75°	80	80	22	75	84	85
85°	12	17	7	12	12	15
90°	0	0	0	0	0	



TEST NUMBER: P799824

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDDWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4735.5	4735.5	4735.5	4735.5	4735.5	4735.5	4735.5	4735.5	4735.5
2.5°	4747.5	4754.8	4769.2	4771.6	4764.4	4718.6	4680.1	4694.5	4706.6
5°	4766.8	4781.3	4817.4	4851.1	4839.1	4762.0	4684.9	4682.5	4692.1
7.5°	4697.0	4730.7	4805.3	4889.7	4887.2	4754.8	4641.6	4612.7	4612.7
10°	4559.7	4591.0	4672.9	4786.1	4783.7	4617.5	4492.2	4477.8	4480.2
12.5°	4436.8	4451.3	4492.2	4581.3	4581.3	4417.5	4321.2	4335.7	4354.9
15°	4304.3	4314.0	4304.3	4333.2	4321.2	4186.3	4138.1	4183.9	4212.8
17.5°	4116.5	4121.3	4070.7	4032.2	3986.4	3902.1	3914.1	3981.6	3988.8
20°	3853.9	3885.2	3793.7	3694.9	3651.6	3572.1	3639.5	3714.2	3709.4
22.5°	3564.9	3601.0	3483.0	3319.2	3230.1	3198.7	3319.2	3386.6	3384.2
25°	3234.9	3261.4	3126.5	2897.7	2777.2	2772.4	2938.6	3008.5	3013.3
27.5°	2863.9	2873.6	2721.8	2423.1	2273.8	2309.9	2519.5	2615.8	2627.9
30°	2493.0	2488.2	2331.6	1960.7	1763.2	1861.9	2143.7	2249.7	2261.8
32.5°	2153.4	2138.9	1960.7	1517.5	1281.4	1428.4	1799.3	1910.1	1929.4
35°	1828.2	1804.1	1611.4	1122.5	859.9	1079.1	1503.0	1599.4	1606.6
37.5°	1488.6	1476.5	1324.8	840.6	599.8	819.0	1226.0	1295.9	1288.7
40°	1173.0	1173.0	1047.8	623.9	416.7	609.4	970.7	1033.3	1011.7
42.5°	920.1	932.2	826.2	460.1	296.3	452.8	768.4	826.2	802.1
45°	741.9	741.9	650.3	342.0	192.7	337.2	607.0	660.0	655.2
47.5°	628.7	619.0	527.5	250.5	106.0	252.9	510.6	575.7	573.3
50°	561.2	546.8	452.8	197.5	74.7	209.6	448.0	508.2	510.6
52.5°	508.2	486.6	407.1	175.8	65.0	183.1	407.1	455.2	455.2
55°	450.4	438.4	366.1	156.6	57.8	163.8	366.1	409.5	407.1
57.5°	380.6	378.2	327.6	142.1	53.0	144.5	327.6	354.1	344.4
60°	310.7	320.4	284.2	127.7	48.2	130.1	279.4	301.1	296.3
62.5°	260.1	272.2	248.1	113.2	40.9	115.6	236.1	257.7	252.9
65°	216.8	226.4	207.1	96.3	36.1	96.3	195.1	214.4	214.4
67.5°	178.2	185.5	171.0	79.5	31.3	79.5	159.0	175.8	178.2
70°	142.1	146.9	134.9	62.6	26.5	65.0	125.3	142.1	142.1
72.5°	110.8	113.2	106.0	50.6	24.1	50.6	96.3	110.8	110.8
75°	79.5	84.3	79.5	38.5	21.7	38.5	74.7	81.9	84.3
77.5°	45.8	57.8	57.8	31.3	16.9	28.9	53.0	55.4	55.4
80°	31.3	36.1	40.9	21.7	12.0	21.7	33.7	36.1	33.7
82.5°	21.7	24.1	24.1	14.5	9.6	14.5	21.7	24.1	21.7
85°	12.0	16.9	16.9	12.0	7.2	9.6	12.0	14.5	12.0
87.5°	7.2	9.6	12.0	9.6	7.2	7.2	7.2	7.2	4.8
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)