

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: P799830

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799830
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: LD6C50D010 EU6509050 6LBMDSWWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

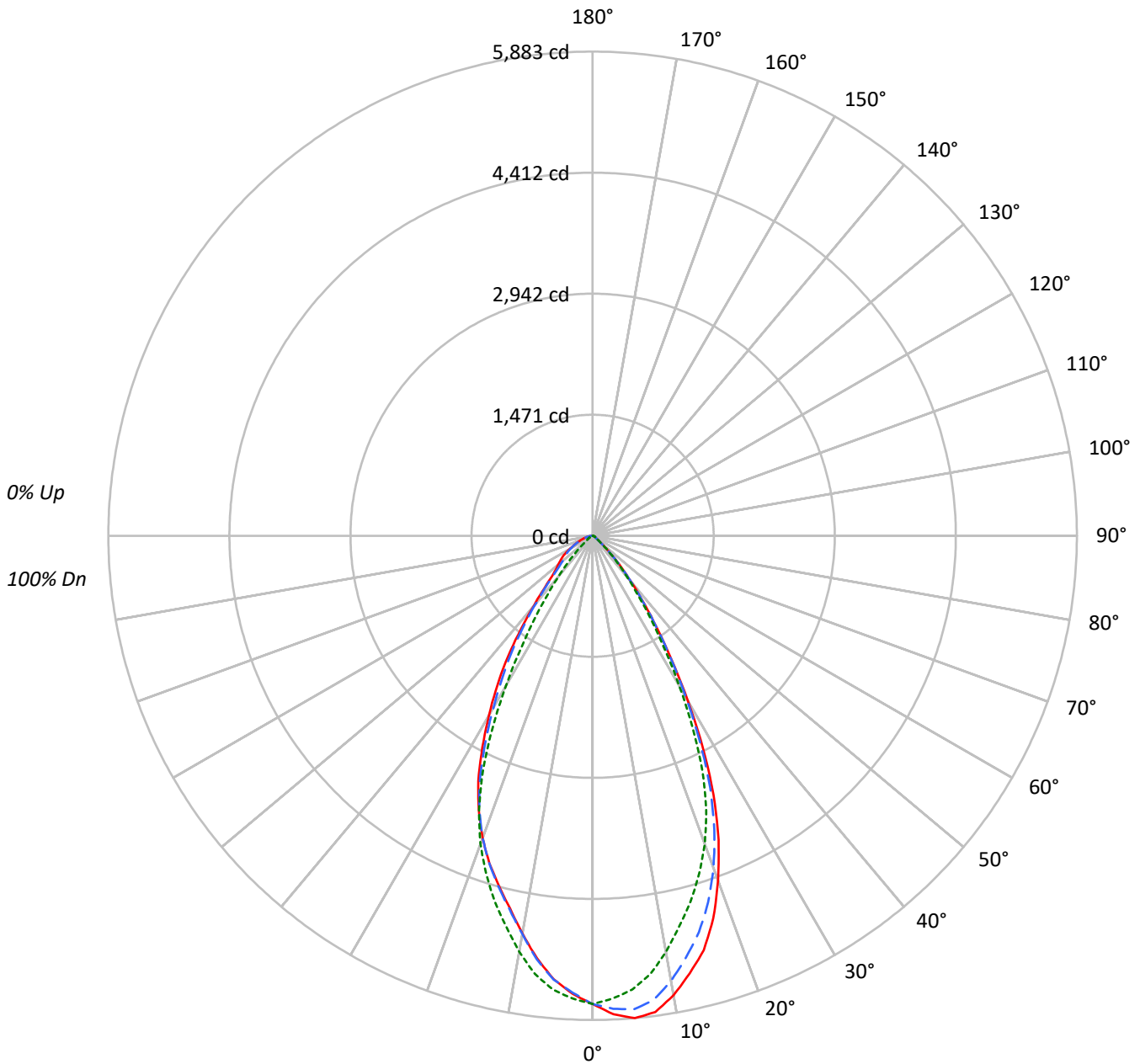
Lumens per Lamp: N/A
Luminaire Lumens: 4898.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P799830

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P799830

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDSWWH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	311872	311872	311872
5°	323733	304550	297666
10°	315453	285666	273102
15°	295847	261029	249746
20°	259723	232379	227940
25°	210061	190910	198774
30°	146035	132982	159088
35°	90005	81465	120067
40°	50931	45664	79735
45°	24739	23592	54417
50°	9415	9415	46259
55°	5161	6098	42694
60°	3772	4846	34986
65°	3178	4138	28654
70°	2757	3542	23610
75°	2605	3643	20270
80°	1547	3094	14711
85°	1572	6164	13901



TEST NUMBER: P799830

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.8	10.6
10°-20°	1309.0	26.7
20°-30°	1473.6	30.1
30°-40°	912.4	18.6
40°-50°	363.4	7.4
50°-60°	165.4	3.4
60°-70°	95.1	1.9
70°-80°	45.2	0.9
80°-90°	13.2	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°	3303.3	67.4
0°-40°	4215.8	86.1
0°-60°	4744.6	96.9
0°-90°	4898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5689	5689	5689	5689	5689	
5°	5883	5775	5534	5414	5409	554
15°	5213	4987	4599	4413	4400	1442
25°	3473	3380	3156	3235	3286	1561
35°	1345	1338	1217	1696	1794	864
45°	319	319	304	663	702	270
55°	54	52	64	393	447	54
65°	24	22	32	218	221	24
75°	12	12	17	93	96	13
85°	2	2	10	22	22	2
90°	0	0	0	0	0	



TEST NUMBER: P799830

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5689.0	5689.0	5689.0	5689.0	5689.0	5689.0	5689.0	5689.0	5689.0
2.5°	5819.0	5765.0	5752.8	5706.1	5627.6	5583.4	5556.4	5536.8	5571.2
5°	5882.9	5823.9	5774.9	5679.1	5534.3	5453.4	5414.1	5382.2	5409.2
7.5°	5836.2	5752.8	5686.5	5554.0	5369.9	5244.7	5190.8	5153.9	5178.5
10°	5666.9	5566.3	5490.2	5333.1	5131.8	4982.1	4915.9	4881.5	4906.1
12.5°	5446.0	5362.5	5247.2	5075.4	4859.4	4702.4	4653.3	4626.3	4636.1
15°	5212.8	5114.7	4987.0	4815.2	4599.3	4442.2	4412.8	4395.6	4400.5
17.5°	4874.2	4778.4	4668.0	4501.1	4302.3	4174.7	4174.7	4162.4	4169.8
20°	4452.0	4400.5	4292.5	4152.6	3983.3	3867.9	3904.7	3892.4	3907.2
22.5°	3995.5	3956.3	3863.0	3747.6	3605.3	3514.5	3595.5	3593.0	3612.7
25°	3472.8	3443.3	3379.5	3281.3	3156.2	3099.7	3234.7	3234.7	3286.2
27.5°	2896.0	2866.6	2822.4	2738.9	2635.9	2618.7	2817.5	2842.0	2898.5
30°	2307.0	2287.4	2262.8	2186.7	2100.8	2132.7	2407.6	2449.3	2513.2
32.5°	1781.8	1769.5	1762.2	1693.4	1617.4	1722.9	2037.0	2091.0	2154.8
35°	1344.9	1317.9	1337.6	1286.0	1217.3	1349.8	1695.9	1742.5	1794.1
37.5°	991.5	971.9	989.1	952.3	890.9	1035.7	1362.1	1391.6	1425.9
40°	711.7	694.6	709.3	687.2	638.1	773.1	1067.6	1099.5	1114.2
42.5°	505.6	476.1	490.9	473.7	449.1	581.7	839.4	868.8	873.7
45°	319.1	309.2	319.1	309.2	304.3	431.9	662.6	689.6	701.9
47.5°	193.9	181.6	181.6	176.7	181.6	319.1	547.3	586.6	606.2
50°	110.4	105.5	103.1	100.6	110.4	250.3	473.7	517.8	542.4
52.5°	73.6	71.2	71.2	68.7	81.0	211.1	427.0	466.3	490.9
55°	54.0	51.5	51.5	51.5	63.8	181.6	392.7	424.6	446.7
57.5°	41.7	41.7	41.7	39.3	54.0	154.6	351.0	368.1	385.3
60°	34.4	31.9	31.9	31.9	44.2	132.5	301.9	309.2	319.1
62.5°	27.0	27.0	27.0	27.0	36.8	117.8	260.2	260.2	265.1
65°	24.5	22.1	22.1	22.1	31.9	103.1	218.4	216.0	220.9
67.5°	19.6	19.6	19.6	19.6	27.0	88.4	179.2	176.7	181.6
70°	17.2	17.2	17.2	17.2	22.1	73.6	144.8	142.3	147.3
72.5°	14.7	14.7	14.7	14.7	19.6	61.4	115.4	115.4	117.8
75°	12.3	12.3	12.3	12.3	17.2	46.6	93.3	93.3	95.7
77.5°	9.8	9.8	9.8	9.8	12.3	36.8	71.2	68.7	68.7
80°	4.9	7.4	7.4	7.4	9.8	27.0	51.5	46.6	46.6
82.5°	2.5	4.9	4.9	4.9	9.8	19.6	34.4	31.9	31.9
85°	2.5	2.5	2.5	7.4	9.8	14.7	22.1	22.1	22.1
87.5°	0.0	2.5	4.9	9.8	12.3	12.3	14.7	12.3	12.3
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)