

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: P799781

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799781
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 EU6509027 6LBMDSWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

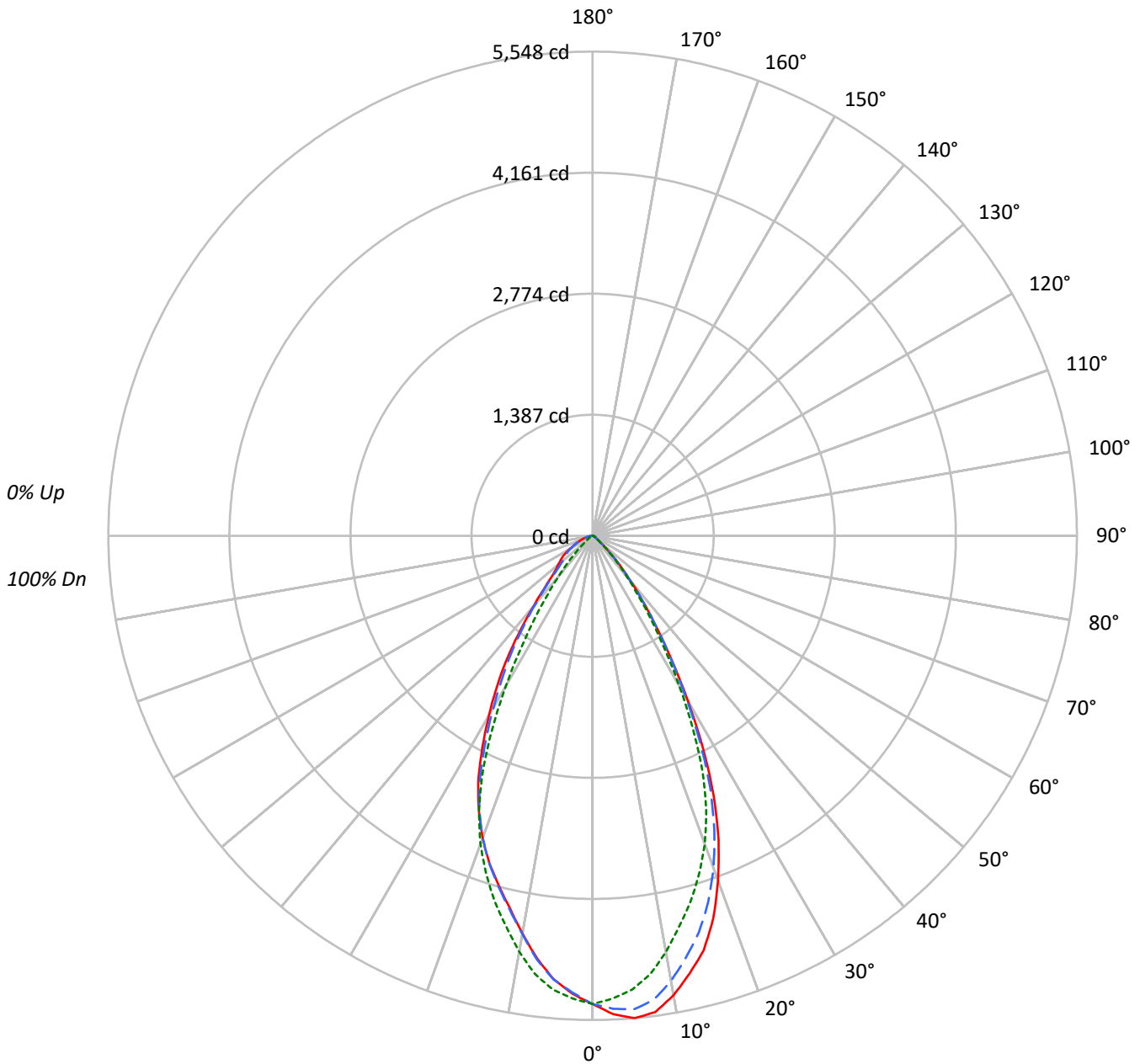
Lumens per Lamp: N/A
Luminaire Lumens: 4619.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799781

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P799781

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMDSWMW

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°	294105	294105	294105
5°	305293	287205	280711
10°	297484	269395	257544
15°	278997	246159	235518
20°	244928	219142	214954
25°	198096	180035	187456
30°	137717	125412	150023
35°	84879	76828	113227
40°	48033	43066	75198
45°	23328	22250	51315
50°	8887	8887	43623
55°	4865	5754	40257
60°	3552	4572	32991
65°	2996	3904	27020
70°	2597	3334	22263
75°	2457	3431	19126
80°	1452	2936	13891
85°	1447	5850	13083



TEST NUMBER: P799781

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.1	10.6
10°-20°	1234.4	26.7
20°-30°	1389.6	30.1
30°-40°	860.5	18.6
40°-50°	342.7	7.4
50°-60°	156.0	3.4
60°-70°	89.7	1.9
70°-80°	42.6	0.9
80°-90°	12.4	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°	3115.2	67.4
0°-40°	3975.7	86.1
0°-60°	4474.3	96.9
0°-90°	4619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4619.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5365	5365	5365	5365	5365	
5°	5548	5446	5219	5106	5101	522
15°	4916	4703	4337	4161	4150	1360
25°	3275	3187	2976	3050	3099	1472
35°	1268	1261	1148	1599	1692	815
45°	301	301	287	625	662	255
55°	51	49	60	370	421	51
65°	23	21	30	206	208	23
75°	12	12	16	88	90	12
85°	2	2	9	21	21	2
90°	0	0	0	0	0	



TEST NUMBER: P799781

CATALOG NUMBER: LD6C50D010 EU6509027 6LBMDSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5364.9	5364.9	5364.9	5364.9	5364.9	5364.9	5364.9	5364.9	5364.9
2.5°	5487.6	5436.7	5425.1	5381.1	5307.0	5265.4	5239.9	5221.4	5253.8
5°	5547.8	5492.2	5445.9	5355.7	5219.1	5142.7	5105.7	5075.6	5101.1
7.5°	5503.8	5425.1	5362.6	5237.6	5064.0	4946.0	4895.1	4860.4	4883.5
10°	5344.1	5249.2	5177.4	5029.3	4839.5	4698.3	4635.9	4603.5	4626.6
12.5°	5135.8	5057.1	4948.3	4786.3	4582.6	4434.5	4388.2	4362.8	4372.0
15°	4915.9	4823.3	4703.0	4541.0	4337.3	4189.2	4161.4	4145.2	4149.8
17.5°	4596.5	4506.2	4402.1	4244.7	4057.2	3936.9	3936.9	3925.3	3932.3
20°	4198.4	4149.8	4048.0	3916.1	3756.4	3647.6	3682.3	3670.7	3684.6
22.5°	3767.9	3730.9	3643.0	3534.2	3399.9	3314.3	3390.7	3388.4	3406.9
25°	3275.0	3247.2	3187.0	3094.4	2976.4	2923.2	3050.5	3050.5	3099.1
27.5°	2731.1	2703.3	2661.6	2582.9	2485.7	2469.5	2657.0	2680.1	2733.4
30°	2175.6	2157.1	2133.9	2062.2	1981.2	2011.3	2270.5	2309.8	2370.0
32.5°	1680.3	1668.7	1661.8	1597.0	1525.2	1624.7	1921.0	1971.9	2032.1
35°	1268.3	1242.9	1261.4	1212.8	1148.0	1273.0	1599.3	1643.3	1691.9
37.5°	935.0	916.5	932.7	898.0	840.1	976.7	1284.5	1312.3	1344.7
40°	671.2	655.0	668.9	648.0	601.8	729.1	1006.8	1036.9	1050.8
42.5°	476.8	449.0	462.9	446.7	423.5	548.5	791.5	819.3	823.9
45°	300.9	291.6	300.9	291.6	287.0	407.3	624.9	650.4	661.9
47.5°	182.8	171.3	171.3	166.6	171.3	300.9	516.1	553.2	571.7
50°	104.2	99.5	97.2	94.9	104.2	236.1	446.7	488.4	511.5
52.5°	69.4	67.1	67.1	64.8	76.4	199.0	402.7	439.7	462.9
55°	50.9	48.6	48.6	48.6	60.2	171.3	370.3	400.4	421.2
57.5°	39.3	39.3	39.3	37.0	50.9	145.8	331.0	347.2	363.4
60°	32.4	30.1	30.1	30.1	41.7	125.0	284.7	291.6	300.9
62.5°	25.5	25.5	25.5	25.5	34.7	111.1	245.3	245.3	250.0
65°	23.1	20.8	20.8	20.8	30.1	97.2	206.0	203.7	208.3
67.5°	18.5	18.5	18.5	18.5	25.5	83.3	169.0	166.6	171.3
70°	16.2	16.2	16.2	16.2	20.8	69.4	136.6	134.2	138.9
72.5°	13.9	13.9	13.9	13.9	18.5	57.9	108.8	108.8	111.1
75°	11.6	11.6	11.6	11.6	16.2	44.0	87.9	87.9	90.3
77.5°	9.3	9.3	9.3	9.3	11.6	34.7	67.1	64.8	64.8
80°	4.6	6.9	6.9	6.9	9.3	25.5	48.6	44.0	44.0
82.5°	2.3	4.6	4.6	4.6	9.3	18.5	32.4	30.1	30.1
85°	2.3	2.3	2.3	6.9	9.3	13.9	20.8	20.8	20.8
87.5°	0.0	2.3	4.6	9.3	11.6	11.6	13.9	11.6	11.6
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)