

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: P799822

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799822
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 6LBMDDWLI
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

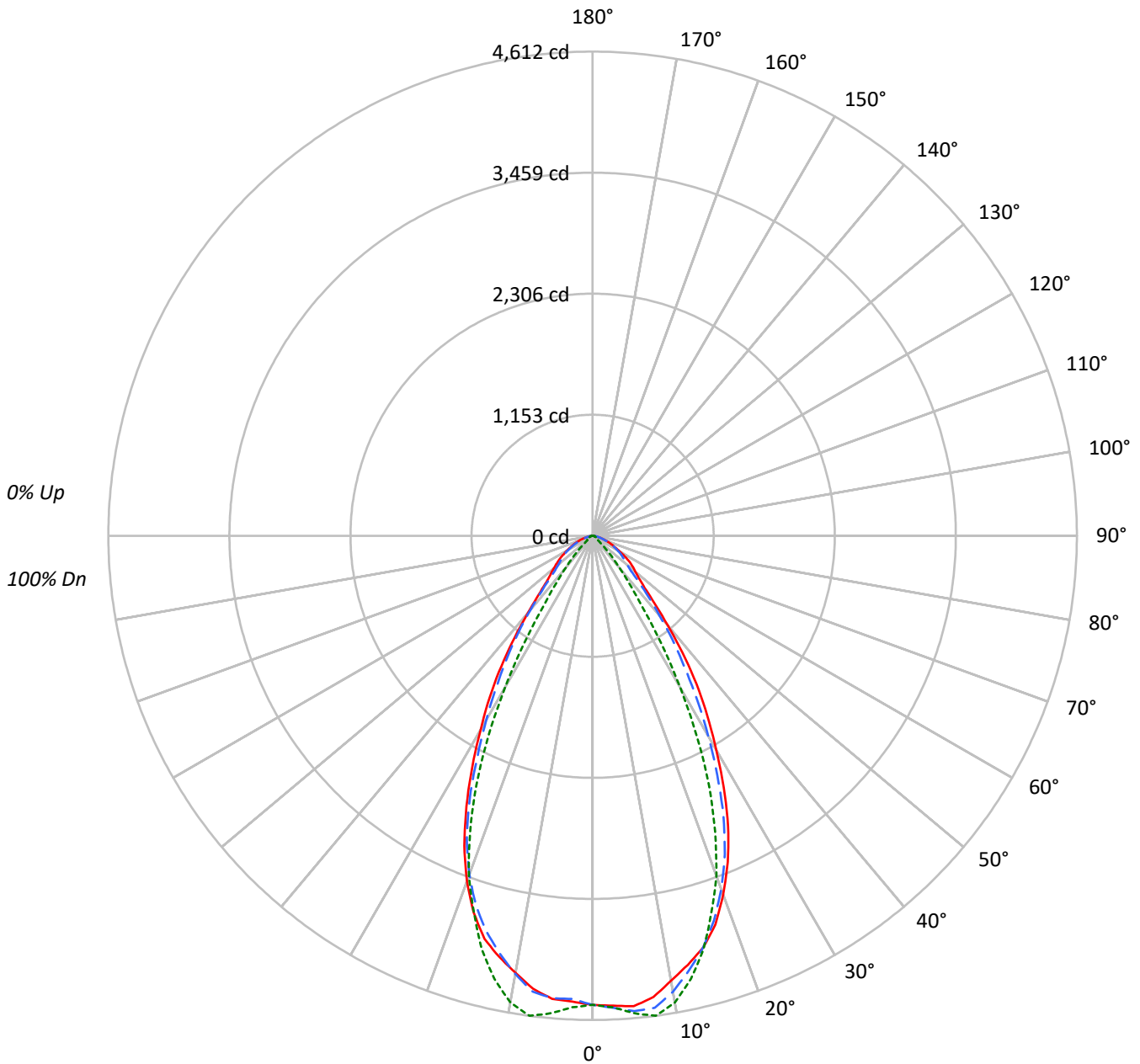
Lumens per Lamp: N/A
Luminaire Lumens: 4549.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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								
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°	244953	244953	244953
5°	247518	251265	243638
10°	239497	251265	235322
15°	230506	231409	225603
20°	212148	201011	204190
25°	184632	158507	171984
30°	148903	105314	135097
35°	115449	54301	101455
40°	79213	28138	68314
45°	54269	14094	47927
50°	45167	6013	41090
55°	40620	5209	36711
60°	32147	4989	30655
65°	26540	4423	26241
70°	21494	4007	21494
75°	15886	4342	16839
80°	9313	3599	10039
85°	7170	4277	7170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.3	9.4
10°-20°	1116.4	24.5
20°-30°	1274.3	28.0
30°-40°	845.1	18.6
40°-50°	407.6	9.0
50°-60°	250.7	5.5
60°-70°	151.7	3.3
70°-80°	63.8	1.4
80°-90°	14.1	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°	2816.0	61.9
0°-40°	3661.1	80.5
0°-60°	4319.4	95.0
0°-90°	4549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4468	4468	4468	4468	4468	
5°	4498	4546	4566	4421	4427	423
15°	4062	4062	4077	3905	3975	1132
25°	3052	2950	2620	2773	2843	1384
35°	1725	1520	811	1418	1516	1067
45°	700	614	182	573	618	571
55°	425	346	54	346	384	374
65°	205	196	34	184	202	205
75°	75	75	20	70	80	80
85°	11	16	7	11	11	15
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°	4468.3	4468.3	4468.3	4468.3	4468.3	4468.3	4468.3	4468.3	4468.3
2.5°	4479.7	4486.5	4500.1	4502.4	4495.6	4452.4	4416.0	4429.7	4441.0
5°	4497.9	4511.5	4545.6	4577.4	4566.0	4493.3	4420.6	4418.3	4427.4
7.5°	4432.0	4463.8	4534.2	4613.8	4611.5	4486.5	4379.7	4352.4	4352.4
10°	4302.4	4332.0	4409.2	4516.0	4513.8	4357.0	4238.8	4225.1	4227.4
12.5°	4186.5	4200.1	4238.8	4322.9	4322.9	4168.3	4077.4	4091.0	4109.2
15°	4061.5	4070.6	4061.5	4088.8	4077.4	3950.1	3904.7	3947.8	3975.1
17.5°	3884.2	3888.8	3841.0	3804.7	3761.5	3681.9	3693.3	3756.9	3763.8
20°	3636.5	3666.0	3579.7	3486.5	3445.6	3370.6	3434.2	3504.7	3500.1
22.5°	3363.7	3397.8	3286.5	3131.9	3047.8	3018.3	3131.9	3195.6	3193.3
25°	3052.4	3077.4	2950.1	2734.2	2620.5	2616.0	2772.8	2838.7	2843.3
27.5°	2702.4	2711.4	2568.3	2286.4	2145.5	2179.6	2377.3	2468.3	2479.6
30°	2352.3	2347.8	2200.1	1850.1	1663.7	1756.9	2022.8	2122.8	2134.2
32.5°	2031.9	2018.2	1850.1	1431.9	1209.1	1347.8	1697.8	1802.3	1820.5
35°	1725.1	1702.3	1520.5	1059.1	811.4	1018.2	1418.2	1509.1	1516.0
37.5°	1404.6	1393.2	1250.0	793.2	565.9	772.8	1156.9	1222.8	1215.9
40°	1106.9	1106.9	988.7	588.7	393.2	575.0	915.9	975.0	954.6
42.5°	868.2	879.6	779.6	434.1	279.6	427.3	725.0	779.6	756.8
45°	700.0	700.0	613.7	322.7	181.8	318.2	572.7	622.7	618.2
47.5°	593.2	584.1	497.7	236.4	100.0	238.6	481.8	543.2	540.9
50°	529.6	515.9	427.3	186.4	70.5	197.7	422.7	479.6	481.8
52.5°	479.6	459.1	384.1	165.9	61.4	172.7	384.1	429.6	429.6
55°	425.0	413.6	345.5	147.7	54.5	154.6	345.5	386.4	384.1
57.5°	359.1	356.8	309.1	134.1	50.0	136.4	309.1	334.1	325.0
60°	293.2	302.3	268.2	120.5	45.5	122.7	263.6	284.1	279.6
62.5°	245.5	256.8	234.1	106.8	38.6	109.1	222.7	243.2	238.6
65°	204.6	213.6	195.5	90.9	34.1	90.9	184.1	202.3	202.3
67.5°	168.2	175.0	161.4	75.0	29.5	75.0	150.0	165.9	168.2
70°	134.1	138.6	127.3	59.1	25.0	61.4	118.2	134.1	134.1
72.5°	104.5	106.8	100.0	47.7	22.7	47.7	90.9	104.5	104.5
75°	75.0	79.5	75.0	36.4	20.5	36.4	70.5	77.3	79.5
77.5°	43.2	54.5	54.5	29.5	15.9	27.3	50.0	52.3	52.3
80°	29.5	34.1	38.6	20.5	11.4	20.5	31.8	34.1	31.8
82.5°	20.5	22.7	22.7	13.6	9.1	13.6	20.5	22.7	20.5
85°	11.4	15.9	15.9	11.4	6.8	9.1	11.4	13.6	11.4
87.5°	6.8	9.1	11.4	9.1	6.8	6.8	6.8	6.8	4.5
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)