

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: P799828

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799828
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 6LBMDSWLI
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

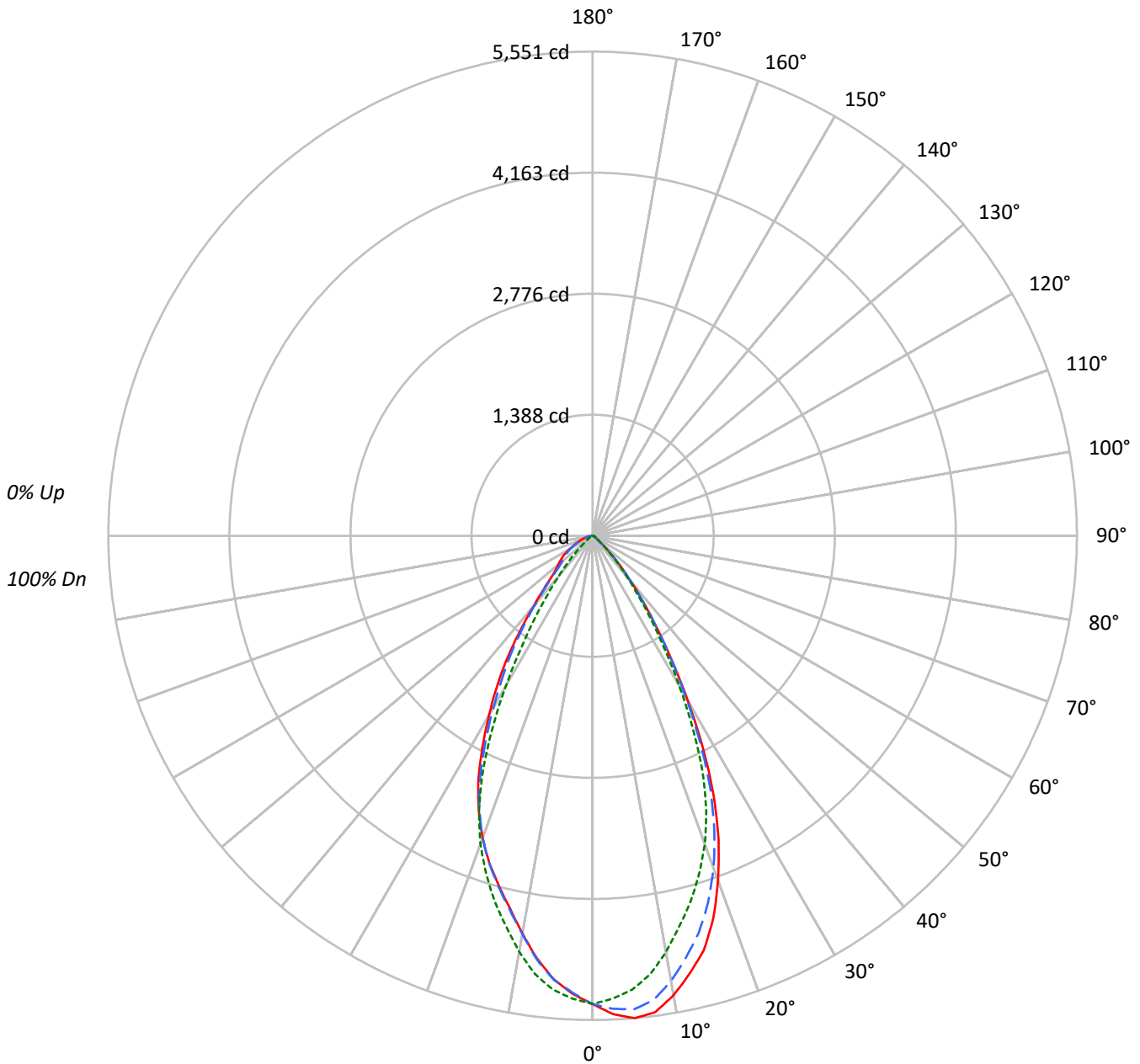
Lumens per Lamp: N/A
Luminaire Lumens: 4622.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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°	294297	294297	294297
5°	305491	287392	280893
10°	297679	269573	257711
15°	279179	246318	235671
20°	245091	219282	215094
25°	198223	180150	187577
30°	137806	125494	150118
35°	84932	76875	113301
40°	48061	43088	75241
45°	23344	22266	51354
50°	8887	8887	43649
55°	4874	5754	40285
60°	3552	4572	33013
65°	3009	3904	27033
70°	2597	3334	22279
75°	2457	3431	19126
80°	1452	2936	13891
85°	1447	5850	13083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.5	10.6
10°-20°	1235.2	26.7
20°-30°	1390.5	30.1
30°-40°	861.0	18.6
40°-50°	342.9	7.4
50°-60°	156.1	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°	3117.2	67.4
0°-40°	3978.2	86.1
0°-60°	4477.2	96.9
0°-90°	4622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4622.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5368	5368	5368	5368	5368	
5°	5551	5450	5222	5109	5104	523
15°	4919	4706	4340	4164	4152	1361
25°	3277	3189	2978	3052	3101	1473
35°	1269	1262	1149	1600	1693	816
45°	301	301	287	625	662	255
55°	51	49	60	371	422	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5368.4	5368.4	5368.4	5368.4	5368.4	5368.4	5368.4	5368.4	5368.4
2.5°	5491.1	5440.2	5428.6	5384.6	5310.5	5268.8	5243.3	5224.8	5257.2
5°	5551.4	5495.8	5449.5	5359.1	5222.5	5146.1	5109.0	5078.9	5104.4
7.5°	5507.4	5428.6	5366.1	5241.0	5067.3	4949.2	4898.3	4863.5	4886.7
10°	5347.6	5252.6	5180.8	5032.6	4842.7	4701.4	4638.9	4606.4	4629.6
12.5°	5139.1	5060.4	4951.5	4789.4	4585.6	4437.4	4391.1	4365.6	4374.8
15°	4919.1	4826.5	4706.0	4543.9	4340.1	4191.9	4164.1	4147.9	4152.5
17.5°	4599.5	4509.2	4405.0	4247.5	4059.9	3939.4	3939.4	3927.9	3934.8
20°	4201.2	4152.5	4050.6	3918.6	3758.8	3650.0	3684.7	3673.1	3687.0
22.5°	3770.4	3733.3	3645.3	3536.5	3402.1	3316.5	3392.9	3390.6	3409.1
25°	3277.1	3249.3	3189.1	3096.4	2978.3	2925.1	3052.4	3052.4	3101.1
27.5°	2732.8	2705.0	2663.4	2584.6	2487.3	2471.1	2658.7	2681.9	2735.1
30°	2177.0	2158.5	2135.3	2063.5	1982.5	2012.6	2272.0	2311.3	2371.5
32.5°	1681.4	1669.8	1662.9	1598.0	1526.2	1625.8	1922.2	1973.2	2033.4
35°	1269.1	1243.7	1262.2	1213.6	1148.7	1273.8	1600.3	1644.3	1693.0
37.5°	935.6	917.1	933.3	898.6	840.7	977.3	1285.4	1313.1	1345.6
40°	671.6	655.4	669.3	648.5	602.1	729.5	1007.4	1037.5	1051.4
42.5°	477.1	449.3	463.2	447.0	423.8	548.9	792.1	819.8	824.5
45°	301.1	291.8	301.1	291.8	287.2	407.6	625.3	650.8	662.4
47.5°	183.0	171.4	171.4	166.7	171.4	301.1	516.5	553.5	572.0
50°	104.2	99.6	97.3	95.0	104.2	236.2	447.0	488.7	511.8
52.5°	69.5	67.2	67.2	64.8	76.4	199.2	403.0	440.0	463.2
55°	51.0	48.6	48.6	48.6	60.2	171.4	370.6	400.7	421.5
57.5°	39.4	39.4	39.4	37.1	51.0	145.9	331.2	347.4	363.6
60°	32.4	30.1	30.1	30.1	41.7	125.1	284.9	291.8	301.1
62.5°	25.5	25.5	25.5	25.5	34.7	111.2	245.5	245.5	250.1
65°	23.2	20.8	20.8	20.8	30.1	97.3	206.1	203.8	208.4
67.5°	18.5	18.5	18.5	18.5	25.5	83.4	169.1	166.7	171.4
70°	16.2	16.2	16.2	16.2	20.8	69.5	136.6	134.3	139.0
72.5°	13.9	13.9	13.9	13.9	18.5	57.9	108.9	108.9	111.2
75°	11.6	11.6	11.6	11.6	16.2	44.0	88.0	88.0	90.3
77.5°	9.3	9.3	9.3	9.3	11.6	34.7	67.2	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)