

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: P799804

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799804
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 EU6509035 6LBMDSWLI
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

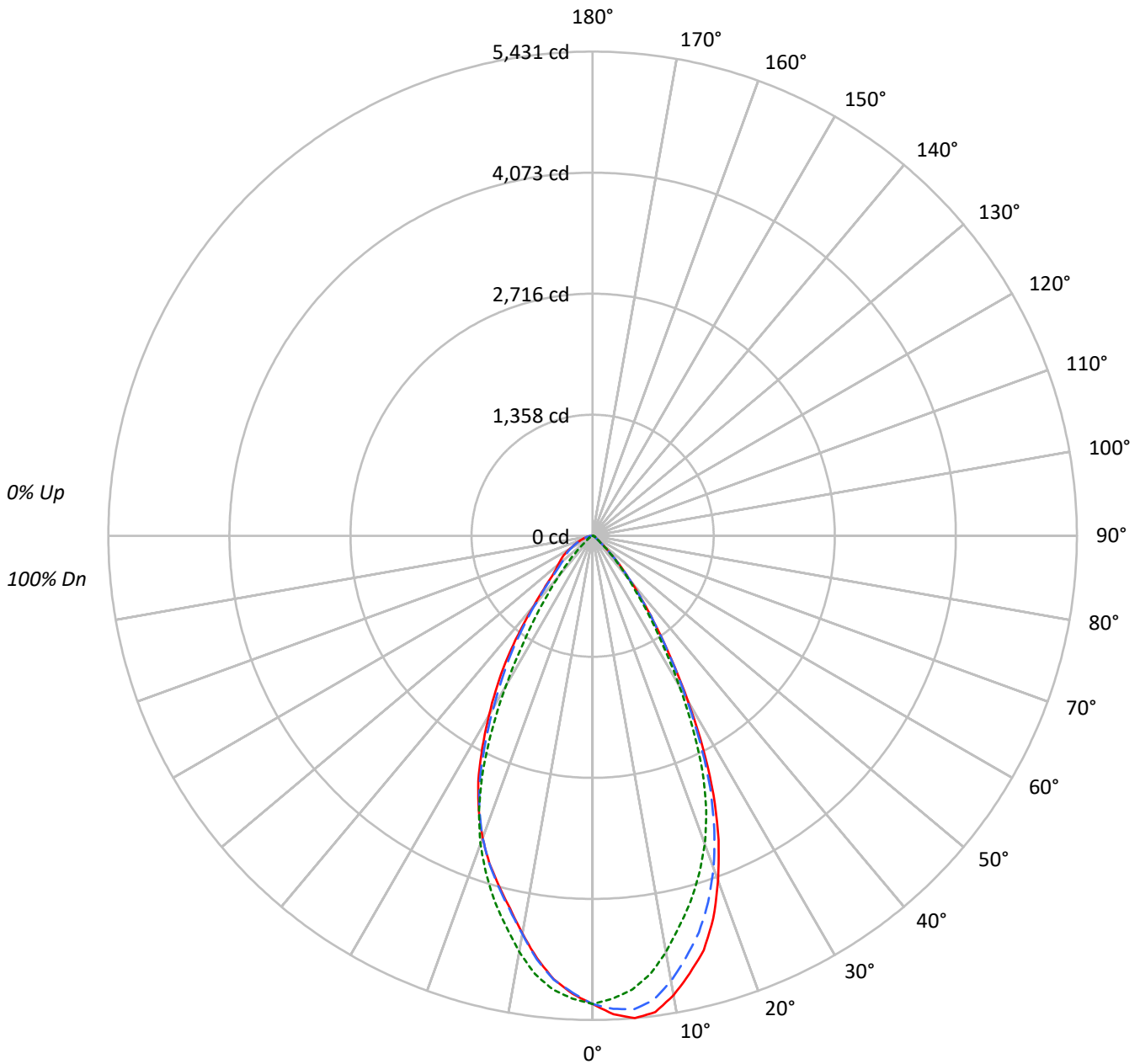
Lumens per Lamp: N/A
Luminaire Lumens: 4522.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799804

CATALOG NUMBER: LD6C50D010 EU6509035 6LBMDSWLI

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	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°	287926	287926	287926
5°	298877	281174	274812
10°	291238	263739	252133
15°	273140	240989	230575
20°	239788	214539	210438
25°	193935	176254	183519
30°	134825	122778	146871
35°	83098	75215	110845
40°	47024	42158	73616
45°	22840	21785	50238
50°	8699	8699	42711
55°	4760	5629	39416
60°	3476	4473	32300
65°	2945	3827	26449
70°	2549	3270	21799
75°	2393	3368	18724
80°	1421	2873	13607
85°	1447	5724	12831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.8	10.6
10°-20°	1208.5	26.7
20°-30°	1360.4	30.1
30°-40°	842.4	18.6
40°-50°	335.5	7.4
50°-60°	152.7	3.4
60°-70°	87.8	1.9
70°-80°	41.7	0.9
80°-90°	12.2	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°	3049.8	67.4
0°-40°	3892.2	86.1
0°-60°	4380.4	96.9
0°-90°	4522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5252	5252	5252	5252	5252	
5°	5431	5332	5110	4998	4994	512
15°	4813	4604	4246	4074	4063	1331
25°	3206	3120	2914	2986	3034	1441
35°	1242	1235	1124	1566	1656	798
45°	295	295	281	612	648	250
55°	50	48	59	362	412	49
65°	23	20	30	202	204	22
75°	11	11	16	86	88	12
85°	2	2	9	20	20	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°	5252.2	5252.2	5252.2	5252.2	5252.2	5252.2	5252.2	5252.2	5252.2
2.5°	5372.3	5322.5	5311.2	5268.1	5195.6	5154.8	5129.9	5111.8	5143.5
5°	5431.2	5376.9	5331.6	5243.2	5109.5	5034.7	4998.5	4969.0	4993.9
7.5°	5388.2	5311.2	5250.0	5127.6	4957.7	4842.1	4792.3	4758.3	4780.9
10°	5231.9	5139.0	5068.7	4923.7	4737.9	4599.7	4538.5	4506.8	4529.4
12.5°	5027.9	4950.9	4844.4	4685.8	4486.4	4341.4	4296.1	4271.1	4280.2
15°	4812.7	4722.0	4604.2	4445.6	4246.2	4101.2	4074.0	4058.1	4062.7
17.5°	4500.0	4411.6	4309.7	4155.6	3972.0	3854.2	3854.2	3842.9	3849.7
20°	4110.3	4062.7	3963.0	3833.8	3677.5	3571.0	3605.0	3593.6	3607.2
22.5°	3688.8	3652.6	3566.5	3460.0	3328.5	3244.7	3319.5	3317.2	3335.3
25°	3206.2	3179.0	3120.1	3029.4	2913.9	2861.8	2986.4	2986.4	3034.0
27.5°	2673.7	2646.5	2605.7	2528.7	2433.5	2417.7	2601.2	2623.9	2676.0
30°	2129.9	2111.8	2089.1	2018.9	1939.6	1969.0	2222.8	2261.3	2320.2
32.5°	1645.0	1633.7	1626.9	1563.4	1493.2	1590.6	1880.7	1930.5	1989.4
35°	1241.7	1216.8	1234.9	1187.3	1123.9	1246.2	1565.7	1608.8	1656.3
37.5°	915.4	897.3	913.1	879.2	822.5	956.2	1257.5	1284.7	1316.5
40°	657.1	641.2	654.8	634.4	589.1	713.7	985.6	1015.1	1028.7
42.5°	466.8	439.6	453.2	437.3	414.7	537.0	774.9	802.1	806.6
45°	294.6	285.5	294.6	285.5	281.0	398.8	611.8	636.7	648.0
47.5°	179.0	167.7	167.7	163.1	167.7	294.6	505.3	541.5	559.7
50°	102.0	97.4	95.2	92.9	102.0	231.1	437.3	478.1	500.8
52.5°	68.0	65.7	65.7	63.4	74.8	194.9	394.3	430.5	453.2
55°	49.8	47.6	47.6	47.6	58.9	167.7	362.5	392.0	412.4
57.5°	38.5	38.5	38.5	36.3	49.8	142.7	324.0	339.9	355.7
60°	31.7	29.5	29.5	29.5	40.8	122.4	278.7	285.5	294.6
62.5°	24.9	24.9	24.9	24.9	34.0	108.8	240.2	240.2	244.7
65°	22.7	20.4	20.4	20.4	29.5	95.2	201.7	199.4	203.9
67.5°	18.1	18.1	18.1	18.1	24.9	81.6	165.4	163.1	167.7
70°	15.9	15.9	15.9	15.9	20.4	68.0	133.7	131.4	136.0
72.5°	13.6	13.6	13.6	13.6	18.1	56.6	106.5	106.5	108.8
75°	11.3	11.3	11.3	11.3	15.9	43.1	86.1	86.1	88.4
77.5°	9.1	9.1	9.1	9.1	11.3	34.0	65.7	63.4	63.4
80°	4.5	6.8	6.8	6.8	9.1	24.9	47.6	43.1	43.1
82.5°	2.3	4.5	4.5	4.5	9.1	18.1	31.7	29.5	29.5
85°	2.3	2.3	2.3	6.8	9.1	13.6	20.4	20.4	20.4
87.5°	0.0	2.3	4.5	9.1	11.3	11.3	13.6	11.3	11.3
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)