

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: P799347

Luminaire Tested: **LD6C10D010 EU6109050 6LBMDSWH**

Issue Date: 4/12/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P799347
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: LD6C10D010 EU6109050 6LBMDSWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

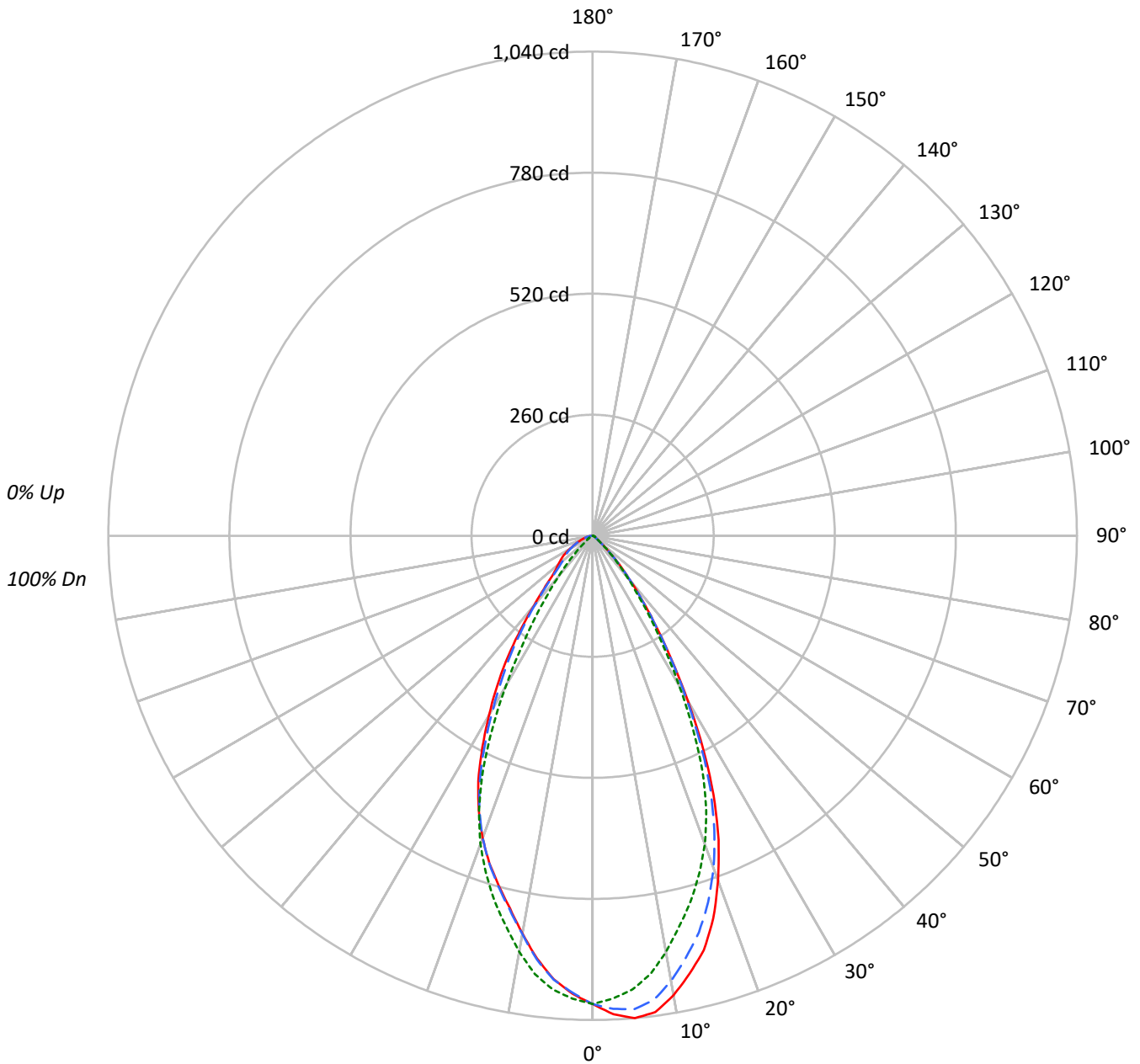
Lumens per Lamp: N/A
Luminaire Lumens: 866.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
Input Current (Ain): 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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59	59	59	59
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52	52	52	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49	49	49	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	55138	55138	55138
5°	57236	53846	52630
10°	55772	50506	48285
15°	52310	46152	44155
20°	45918	41088	40300
25°	37139	33752	35143
30°	25820	23510	28125
35°	15914	14402	21228
40°	9003	8072	14098
45°	4373	4171	9621
50°	1663	1663	8179
55°	908	1080	7551
60°	669	855	6184
65°	558	726	5072
70°	481	625	4167
75°	466	635	3580
80°	284	537	2589
85°	252	1069	2453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	10.6
10°-20°	231.4	26.7
20°-30°	260.5	30.1
30°-40°	161.3	18.6
40°-50°	64.2	7.4
50°-60°	29.2	3.4
60°-70°	16.8	1.9
70°-80°	8.0	0.9
80°-90°	2.3	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°	584.1	67.4
0°-40°	745.4	86.1
0°-60°	838.9	96.9
0°-90°	866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	866.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1006	1006	1006	1006	1006	
5°	1040	1021	978	957	956	98
15°	922	882	813	780	778	255
25°	614	598	558	572	581	276
35°	238	236	215	300	317	153
45°	56	56	54	117	124	48
55°	10	9	11	69	79	9
65°	4	4	6	39	39	4
75°	2	2	3	16	17	2
85°	0	0	2	4	4	0
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°	1005.8	1005.8	1005.8	1005.8	1005.8	1005.8	1005.8	1005.8	1005.8
2.5°	1028.8	1019.3	1017.1	1008.9	995.0	987.2	982.4	978.9	985.0
5°	1040.1	1029.7	1021.0	1004.1	978.5	964.2	957.2	951.6	956.4
7.5°	1031.9	1017.1	1005.4	982.0	949.4	927.3	917.8	911.3	915.6
10°	1001.9	984.2	970.7	942.9	907.3	880.9	869.2	863.1	867.4
12.5°	962.9	948.1	927.7	897.4	859.2	831.4	822.7	818.0	819.7
15°	921.7	904.3	881.7	851.4	813.2	785.4	780.2	777.2	778.0
17.5°	861.8	844.9	825.3	795.8	760.7	738.1	738.1	735.9	737.2
20°	787.1	778.0	758.9	734.2	704.3	683.9	690.4	688.2	690.8
22.5°	706.4	699.5	683.0	662.6	637.4	621.4	635.7	635.3	638.7
25°	614.0	608.8	597.5	580.2	558.0	548.1	571.9	571.9	581.0
27.5°	512.0	506.8	499.0	484.3	466.0	463.0	498.2	502.5	512.5
30°	407.9	404.4	400.1	386.6	371.4	377.1	425.7	433.1	444.3
32.5°	315.0	312.9	311.6	299.4	286.0	304.6	360.2	369.7	381.0
35°	237.8	233.0	236.5	227.4	215.2	238.7	299.8	308.1	317.2
37.5°	175.3	171.8	174.9	168.4	157.5	183.1	240.8	246.0	252.1
40°	125.8	122.8	125.4	121.5	112.8	136.7	188.8	194.4	197.0
42.5°	89.4	84.2	86.8	83.7	79.4	102.8	148.4	153.6	154.5
45°	56.4	54.7	56.4	54.7	53.8	76.4	117.2	121.9	124.1
47.5°	34.3	32.1	32.1	31.2	32.1	56.4	96.8	103.7	107.2
50°	19.5	18.7	18.2	17.8	19.5	44.3	83.7	91.6	95.9
52.5°	13.0	12.6	12.6	12.2	14.3	37.3	75.5	82.4	86.8
55°	9.5	9.1	9.1	9.1	11.3	32.1	69.4	75.1	79.0
57.5°	7.4	7.4	7.4	6.9	9.5	27.3	62.1	65.1	68.1
60°	6.1	5.6	5.6	5.6	7.8	23.4	53.4	54.7	56.4
62.5°	4.8	4.8	4.8	4.8	6.5	20.8	46.0	46.0	46.9
65°	4.3	3.9	3.9	3.9	5.6	18.2	38.6	38.2	39.1
67.5°	3.5	3.5	3.5	3.5	4.8	15.6	31.7	31.2	32.1
70°	3.0	3.0	3.0	3.0	3.9	13.0	25.6	25.2	26.0
72.5°	2.6	2.6	2.6	2.6	3.5	10.8	20.4	20.4	20.8
75°	2.2	2.2	2.2	2.2	3.0	8.2	16.5	16.5	16.9
77.5°	1.7	1.7	1.7	1.7	2.2	6.5	12.6	12.2	12.2
80°	0.9	1.3	1.3	1.3	1.7	4.8	9.1	8.2	8.2
82.5°	0.4	0.9	0.9	0.9	1.7	3.5	6.1	5.6	5.6
85°	0.4	0.4	0.4	1.3	1.7	2.6	3.9	3.9	3.9
87.5°	0.0	0.4	0.9	1.7	2.2	2.2	2.6	2.2	2.2
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)