

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: P799785

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDDWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799785
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 EU6509030 6LBMDDWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

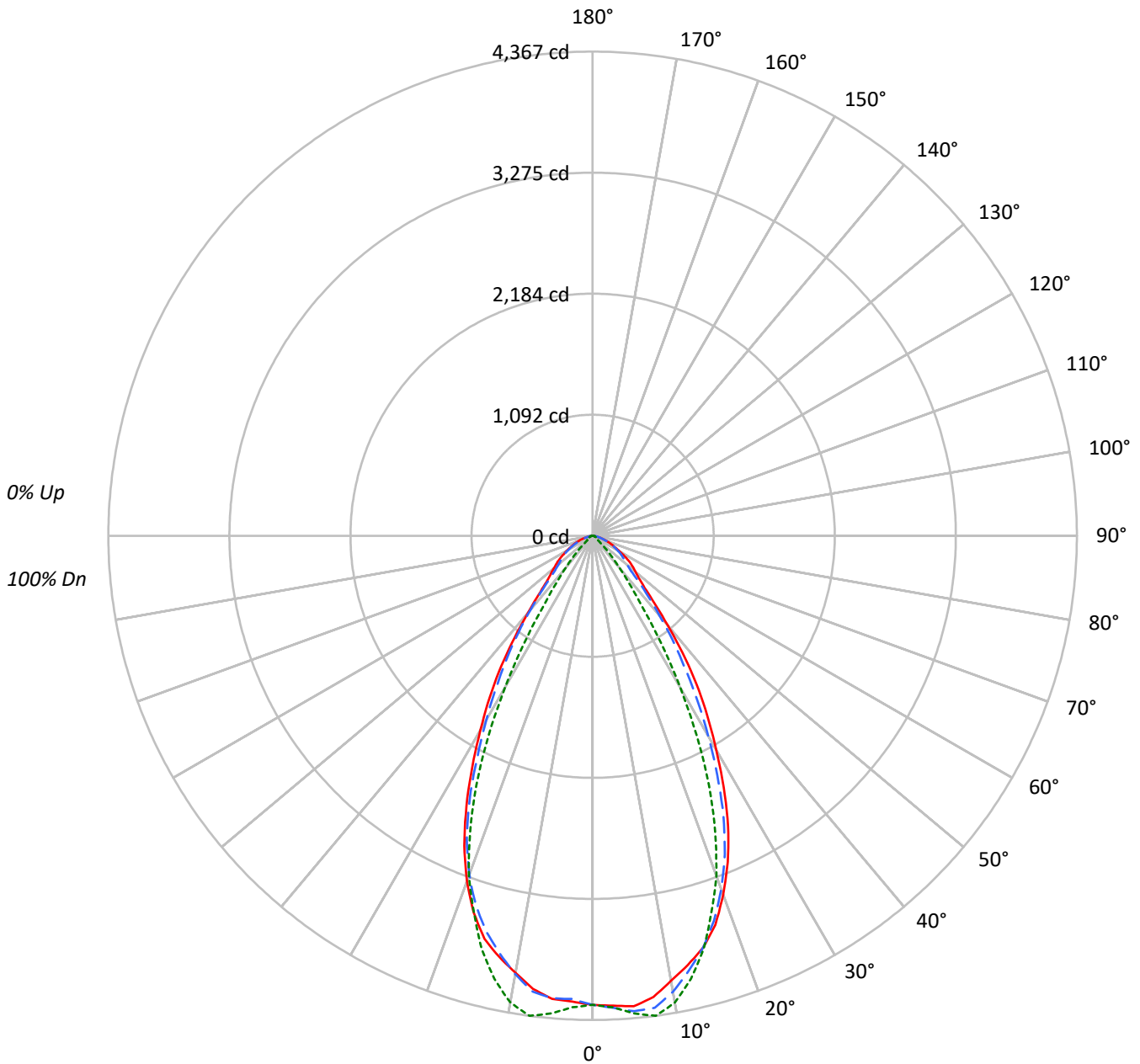
Lumens per Lamp: N/A
Luminaire Lumens: 4308.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	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°	231977	231977	231977
5°	234404	237953	230733
10°	226811	237949	222853
15°	218293	219150	213650
20°	200906	190358	193374
25°	174851	150111	162868
30°	141015	99731	127937
35°	109332	51424	96075
40°	75012	26650	64693
45°	51393	13350	45385
50°	42770	5689	38916
55°	38469	4941	34771
60°	30447	4715	29022
65°	25126	4190	24854
70°	20356	3799	20356
75°	15038	4109	15949
80°	8840	3410	9502
85°	6793	4088	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	9.4
10°-20°	1057.2	24.5
20°-30°	1206.8	28.0
30°-40°	800.3	18.6
40°-50°	386.0	9.0
50°-60°	237.4	5.5
60°-70°	143.7	3.3
70°-80°	60.5	1.4
80°-90°	13.4	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°	2666.8	61.9
0°-40°	3467.1	80.5
0°-60°	4090.5	95.0
0°-90°	4308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4308.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4232	4232	4232	4232	4232	
5°	4260	4305	4324	4186	4193	400
15°	3846	3846	3861	3698	3764	1072
25°	2891	2794	2482	2626	2693	1311
35°	1634	1440	768	1343	1436	1010
45°	663	581	172	542	585	541
55°	402	327	52	327	364	354
65°	194	185	32	174	192	195
75°	71	71	19	67	75	76
85°	11	15	6	11	11	14
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°	4231.6	4231.6	4231.6	4231.6	4231.6	4231.6	4231.6	4231.6	4231.6
2.5°	4242.4	4248.8	4261.7	4263.9	4257.4	4216.5	4182.1	4195.0	4205.8
5°	4259.6	4272.5	4304.8	4334.9	4324.1	4255.3	4186.4	4184.2	4192.9
7.5°	4197.2	4227.3	4294.0	4369.3	4367.2	4248.8	4147.7	4121.8	4121.8
10°	4074.5	4102.4	4175.6	4276.8	4274.6	4126.1	4014.2	4001.3	4003.4
12.5°	3964.7	3977.6	4014.2	4093.8	4093.8	3947.5	3861.4	3874.3	3891.5
15°	3846.3	3854.9	3846.3	3872.1	3861.4	3740.8	3697.8	3738.7	3764.5
17.5°	3678.4	3682.7	3637.5	3603.1	3562.2	3486.9	3497.6	3557.9	3564.4
20°	3443.8	3471.8	3390.0	3301.8	3263.0	3192.0	3252.3	3319.0	3314.7
22.5°	3185.5	3217.8	3112.4	2966.0	2886.4	2858.4	2966.0	3026.3	3024.1
25°	2890.7	2914.3	2793.8	2589.3	2481.7	2477.4	2625.9	2688.3	2692.6
27.5°	2559.2	2567.8	2432.2	2165.3	2031.9	2064.1	2251.4	2337.5	2348.3
30°	2227.7	2223.4	2083.5	1752.0	1575.5	1663.8	1915.6	2010.3	2021.1
32.5°	1924.2	1911.3	1752.0	1356.0	1145.1	1276.4	1607.8	1706.8	1724.1
35°	1633.7	1612.1	1439.9	1003.0	768.4	964.3	1343.1	1429.2	1435.6
37.5°	1330.2	1319.4	1183.8	751.2	535.9	731.8	1095.6	1158.0	1151.5
40°	1048.2	1048.2	936.3	557.5	372.4	544.6	867.4	923.4	904.0
42.5°	822.2	833.0	738.3	411.1	264.7	404.6	686.6	738.3	716.7
45°	662.9	662.9	581.1	305.6	172.2	301.3	542.4	589.8	585.4
47.5°	561.8	553.2	471.4	223.8	94.7	226.0	456.3	514.4	512.3
50°	501.5	488.6	404.6	176.5	66.7	187.3	400.3	454.2	456.3
52.5°	454.2	434.8	363.8	157.1	58.1	163.6	363.8	406.8	406.8
55°	402.5	391.7	327.2	139.9	51.7	146.4	327.2	365.9	363.8
57.5°	340.1	337.9	292.7	127.0	47.4	129.1	292.7	316.4	307.8
60°	277.7	286.3	254.0	114.1	43.0	116.2	249.7	269.0	264.7
62.5°	232.5	243.2	221.7	101.2	36.6	103.3	210.9	230.3	226.0
65°	193.7	202.3	185.1	86.1	32.3	86.1	174.3	191.6	191.6
67.5°	159.3	165.7	152.8	71.0	28.0	71.0	142.1	157.1	159.3
70°	127.0	131.3	120.5	56.0	23.7	58.1	111.9	127.0	127.0
72.5°	99.0	101.2	94.7	45.2	21.5	45.2	86.1	99.0	99.0
75°	71.0	75.3	71.0	34.4	19.4	34.4	66.7	73.2	75.3
77.5°	40.9	51.7	51.7	28.0	15.1	25.8	47.4	49.5	49.5
80°	28.0	32.3	36.6	19.4	10.8	19.4	30.1	32.3	30.1
82.5°	19.4	21.5	21.5	12.9	8.6	12.9	19.4	21.5	19.4
85°	10.8	15.1	15.1	10.8	6.5	8.6	10.8	12.9	10.8
87.5°	6.5	8.6	10.8	8.6	6.5	6.5	6.5	6.5	4.3
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)