

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: P799805

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799805
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 6LBMDSWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

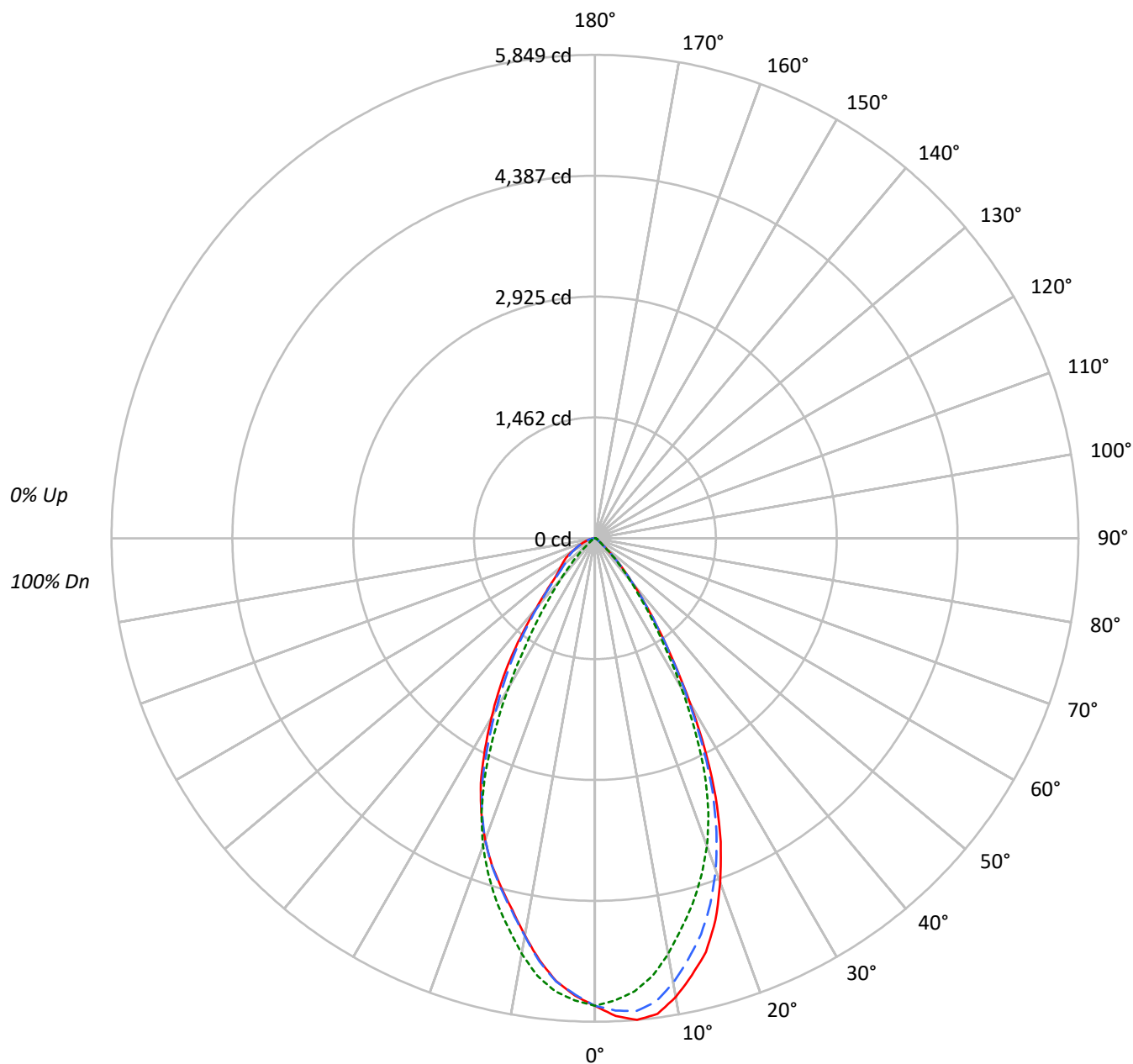
Lumens per Lamp: N/A
Luminaire Lumens: 4870.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	310085	310085	310085
5°	321879	302811	295966
10°	313649	284035	271538
15°	294156	259536	248316
20°	258241	231049	226633
25°	208857	189815	197642
30°	145200	132223	158176
35°	89490	81004	119377
40°	50645	45407	79284
45°	24592	23460	54106
50°	9364	9364	45994
55°	5132	6060	42445
60°	3750	4813	34778
65°	3165	4112	28486
70°	2741	3526	23465
75°	2584	3622	20164
80°	1547	3094	14648
85°	1510	6164	13838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.8	10.6
10°-20°	1301.5	26.7
20°-30°	1465.1	30.1
30°-40°	907.2	18.6
40°-50°	361.3	7.4
50°-60°	164.5	3.4
60°-70°	94.5	1.9
70°-80°	44.9	0.9
80°-90°	13.1	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°	3284.5	67.4
0°-40°	4191.7	86.1
0°-60°	4717.5	96.9
0°-90°	4870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4870.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5656	5656	5656	5656	5656	
5°	5849	5742	5503	5383	5378	551
15°	5183	4958	4573	4388	4375	1434
25°	3453	3360	3138	3216	3268	1552
35°	1337	1330	1210	1686	1784	859
45°	317	317	303	659	698	269
55°	54	51	63	390	444	53
65°	24	22	32	217	220	24
75°	12	12	17	93	95	13
85°	2	2	10	22	22	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°	5656.4	5656.4	5656.4	5656.4	5656.4	5656.4	5656.4	5656.4	5656.4
2.5°	5785.8	5732.1	5719.9	5673.5	5595.4	5551.5	5524.7	5505.1	5539.3
5°	5849.2	5790.7	5741.9	5646.7	5502.7	5422.2	5383.1	5351.4	5378.3
7.5°	5802.9	5719.9	5654.0	5522.2	5339.2	5214.8	5161.1	5124.5	5148.9
10°	5634.5	5534.4	5458.8	5302.6	5102.5	4953.7	4887.8	4853.6	4878.0
12.5°	5414.9	5331.9	5217.2	5046.4	4831.6	4675.5	4626.7	4599.8	4609.6
15°	5183.0	5085.4	4958.5	4787.7	4573.0	4416.8	4387.5	4370.4	4375.3
17.5°	4846.3	4751.1	4641.3	4475.4	4277.7	4150.8	4150.8	4138.6	4145.9
20°	4426.6	4375.3	4268.0	4128.9	3960.5	3845.8	3882.4	3870.2	3884.8
22.5°	3972.7	3933.6	3840.9	3726.2	3584.7	3494.4	3574.9	3572.5	3592.0
25°	3452.9	3423.6	3360.2	3262.6	3138.1	3082.0	3216.2	3216.2	3267.5
27.5°	2879.5	2850.2	2806.3	2723.3	2620.8	2603.7	2801.4	2825.8	2881.9
30°	2293.8	2274.3	2249.9	2174.2	2088.8	2120.6	2393.9	2435.3	2498.8
32.5°	1771.6	1759.4	1752.1	1683.8	1608.1	1713.0	2025.4	2079.1	2142.5
35°	1337.2	1310.4	1329.9	1278.7	1210.4	1342.1	1686.2	1732.6	1783.8
37.5°	985.9	966.3	983.4	946.8	885.8	1029.8	1354.3	1383.6	1417.8
40°	707.7	690.6	705.2	683.3	634.5	768.7	1061.5	1093.2	1107.9
42.5°	502.7	473.4	488.0	471.0	446.6	578.3	834.6	863.8	868.7
45°	317.2	307.5	317.2	307.5	302.6	429.5	658.9	685.7	697.9
47.5°	192.8	180.6	180.6	175.7	180.6	317.2	544.2	583.2	602.7
50°	109.8	104.9	102.5	100.0	109.8	248.9	471.0	514.9	539.3
52.5°	73.2	70.8	70.8	68.3	80.5	209.9	424.6	463.6	488.0
55°	53.7	51.2	51.2	51.2	63.4	180.6	390.4	422.2	444.1
57.5°	41.5	41.5	41.5	39.0	53.7	153.7	349.0	366.0	383.1
60°	34.2	31.7	31.7	31.7	43.9	131.8	300.1	307.5	317.2
62.5°	26.8	26.8	26.8	26.8	36.6	117.1	258.7	258.7	263.5
65°	24.4	22.0	22.0	22.0	31.7	102.5	217.2	214.7	219.6
67.5°	19.5	19.5	19.5	19.5	26.8	87.8	178.1	175.7	180.6
70°	17.1	17.1	17.1	17.1	22.0	73.2	144.0	141.5	146.4
72.5°	14.6	14.6	14.6	14.6	19.5	61.0	114.7	114.7	117.1
75°	12.2	12.2	12.2	12.2	17.1	46.4	92.7	92.7	95.2
77.5°	9.8	9.8	9.8	9.8	12.2	36.6	70.8	68.3	68.3
80°	4.9	7.3	7.3	7.3	9.8	26.8	51.2	46.4	46.4
82.5°	2.4	4.9	4.9	4.9	9.8	19.5	34.2	31.7	31.7
85°	2.4	2.4	2.4	7.3	9.8	14.6	22.0	22.0	22.0
87.5°	0.0	2.4	4.9	9.8	12.2	12.2	14.6	12.2	12.2
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)