

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: P799788

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDDWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799788  
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 6LBMDDWWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

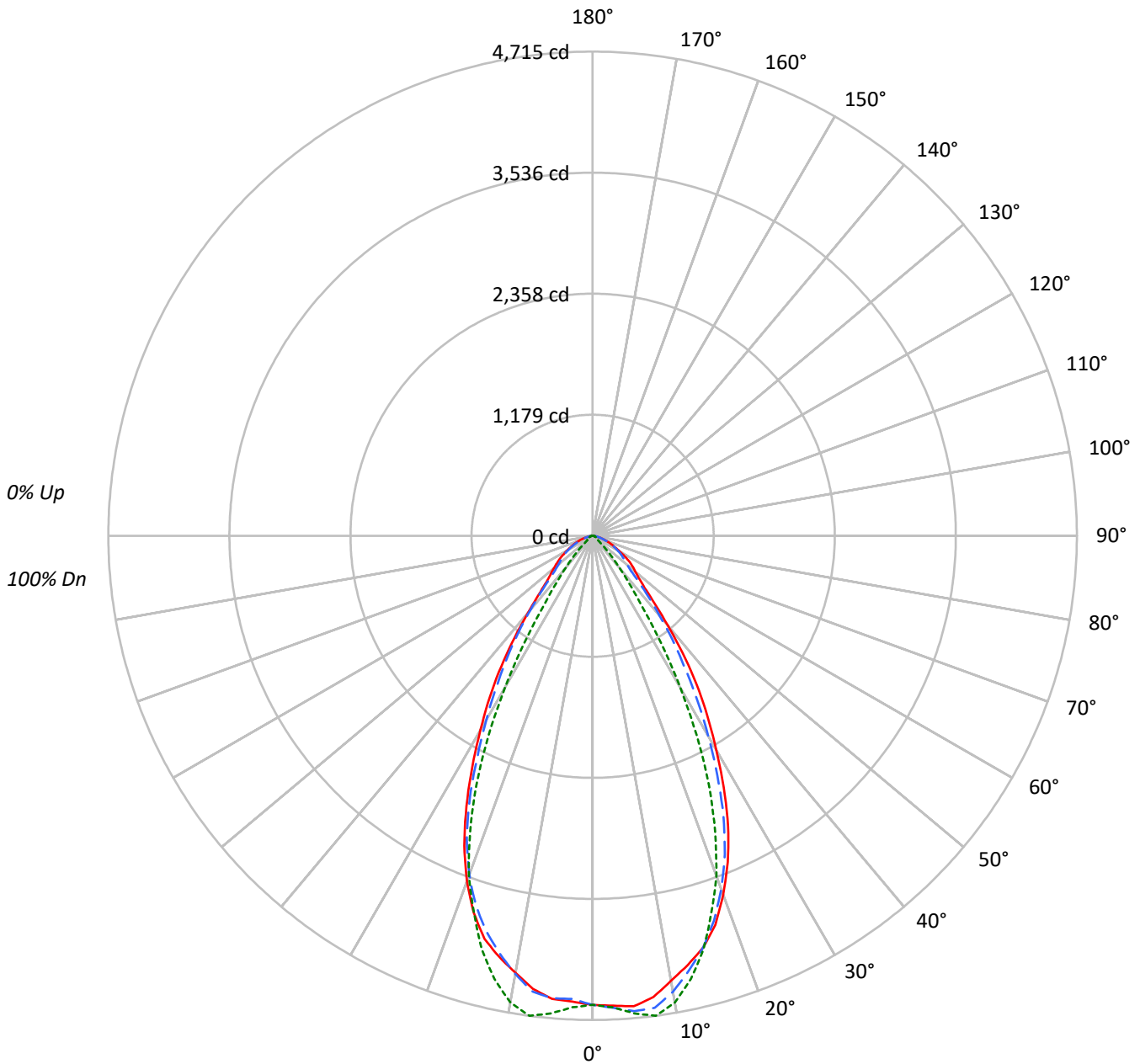
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4651.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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<sub>in</sub>): 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°	250446	250446	250446
5°	253064	256900	249102
10°	244869	256898	240599
15°	235677	236596	230665
20°	216902	205515	208770
25°	188769	162064	175837
30°	152245	107675	138123
35°	118032	55519	103724
40°	80987	28768	69845
45°	55486	14412	49005
50°	46173	6141	42011
55°	41528	5333	37533
60°	32870	5098	31335
65°	27124	4527	26825
70°	21975	4103	21975
75°	16246	4427	17220
80°	9534	3662	10260
85°	7296	4403	7296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.9	9.4
10°-20°	1141.4	24.5
20°-30°	1302.8	28.0
30°-40°	864.0	18.6
40°-50°	416.7	9.0
50°-60°	256.3	5.5
60°-70°	155.1	3.3
70°-80°	65.3	1.4
80°-90°	14.4	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°	2879.1	61.9
0°-40°	3743.1	80.5
0°-60°	4416.2	95.0
0°-90°	4651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4568	4568	4568	4568	4568	
5°	4599	4648	4668	4520	4527	432
15°	4153	4153	4169	3992	4064	1157
25°	3121	3016	2679	2835	2907	1415
35°	1764	1555	830	1450	1550	1091
45°	716	627	186	586	632	584
55°	434	353	56	353	393	382
65°	209	200	35	188	207	210
75°	77	77	21	72	81	82
85°	12	16	7	12	12	15
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°	4568.5	4568.5	4568.5	4568.5	4568.5	4568.5	4568.5	4568.5	4568.5
2.5°	4580.1	4587.1	4601.0	4603.4	4596.4	4552.2	4515.1	4529.0	4540.6
5°	4598.7	4612.7	4647.5	4680.1	4668.4	4594.1	4519.7	4517.4	4526.7
7.5°	4531.3	4563.9	4635.9	4717.2	4714.9	4587.1	4477.9	4450.0	4450.0
10°	4398.9	4429.1	4508.1	4617.3	4615.0	4454.6	4333.8	4319.9	4322.2
12.5°	4280.4	4294.3	4333.8	4419.8	4419.8	4261.8	4168.8	4182.8	4201.4
15°	4152.6	4161.9	4152.6	4180.4	4168.8	4038.7	3992.2	4036.4	4064.3
17.5°	3971.3	3976.0	3927.2	3890.0	3845.8	3764.5	3776.1	3841.2	3848.1
20°	3718.0	3748.2	3659.9	3564.6	3522.8	3446.1	3511.2	3583.2	3578.6
22.5°	3439.2	3474.0	3360.2	3202.1	3116.2	3086.0	3202.1	3267.2	3264.9
25°	3120.8	3146.4	3016.2	2795.5	2679.3	2674.6	2835.0	2902.4	2907.0
27.5°	2762.9	2772.2	2625.8	2337.7	2193.6	2228.5	2430.7	2523.6	2535.2
30°	2405.1	2400.4	2249.4	1891.5	1701.0	1796.3	2068.1	2170.4	2182.0
32.5°	2077.4	2063.5	1891.5	1464.0	1236.2	1378.0	1735.8	1842.7	1861.3
35°	1763.7	1740.5	1554.6	1082.9	829.6	1041.0	1450.0	1543.0	1549.9
37.5°	1436.1	1424.5	1278.1	811.0	578.6	790.1	1182.8	1250.2	1243.2
40°	1131.7	1131.7	1010.8	601.9	402.0	587.9	936.5	996.9	976.0
42.5°	887.7	899.3	797.0	443.8	285.8	436.9	741.3	797.0	773.8
45°	715.7	715.7	627.4	330.0	185.9	325.3	585.6	636.7	632.1
47.5°	606.5	597.2	508.9	241.7	102.2	244.0	492.6	555.4	553.1
50°	541.4	527.5	436.9	190.5	72.0	202.2	432.2	490.3	492.6
52.5°	490.3	469.4	392.7	169.6	62.7	176.6	392.7	439.2	439.2
55°	434.5	422.9	353.2	151.0	55.8	158.0	353.2	395.0	392.7
57.5°	367.2	364.8	316.0	137.1	51.1	139.4	316.0	341.6	332.3
60°	299.8	309.1	274.2	123.2	46.5	125.5	269.6	290.5	285.8
62.5°	251.0	262.6	239.3	109.2	39.5	111.5	227.7	248.6	244.0
65°	209.1	218.4	199.8	93.0	34.9	93.0	188.2	206.8	206.8
67.5°	172.0	178.9	165.0	76.7	30.2	76.7	153.4	169.6	172.0
70°	137.1	141.7	130.1	60.4	25.6	62.7	120.8	137.1	137.1
72.5°	106.9	109.2	102.2	48.8	23.2	48.8	93.0	106.9	106.9
75°	76.7	81.3	76.7	37.2	20.9	37.2	72.0	79.0	81.3
77.5°	44.2	55.8	55.8	30.2	16.3	27.9	51.1	53.4	53.4
80°	30.2	34.9	39.5	20.9	11.6	20.9	32.5	34.9	32.5
82.5°	20.9	23.2	23.2	13.9	9.3	13.9	20.9	23.2	20.9
85°	11.6	16.3	16.3	11.6	7.0	9.3	11.6	13.9	11.6
87.5°	7.0	9.3	11.6	9.3	7.0	7.0	7.0	7.0	4.6
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)