

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: P799794

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDSWWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799794  
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 EU6509030 6LBMDSWWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

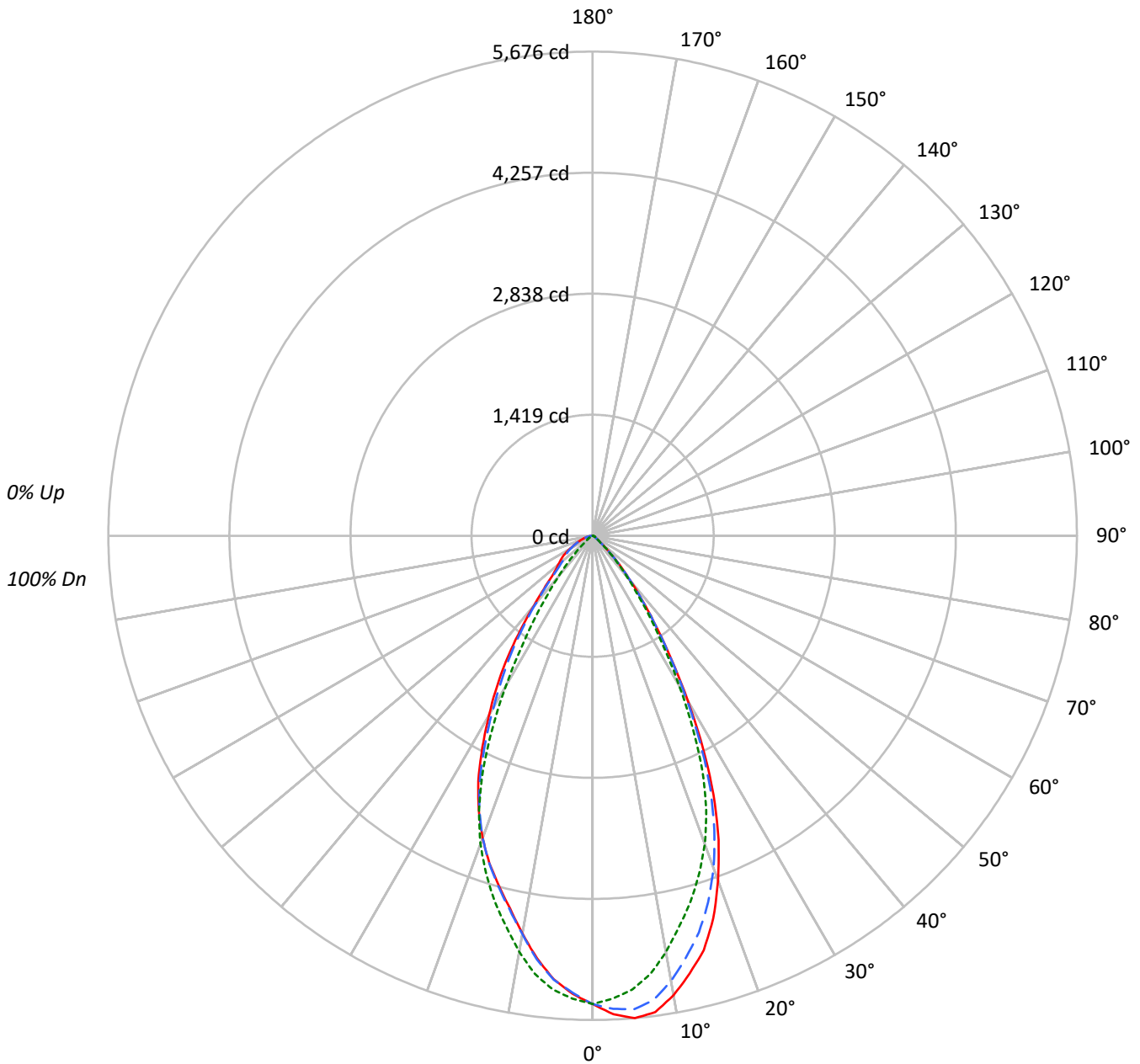
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4726.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 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<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	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°	300919	300919	300919
5°	312364	293858	287210
10°	304375	275635	263511
15°	285461	251863	240978
20°	250604	224218	219936
25°	202681	184202	191793
30°	140908	128317	153498
35°	86846	78608	115851
40°	49142	44061	76937
45°	23863	22762	52509
50°	9091	9091	44630
55°	4980	5887	41193
60°	3640	4671	33747
65°	3074	3995	27642
70°	2661	3414	22776
75°	2499	3516	19571
80°	1484	2999	14206
85°	1510	5975	13398



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CATALOG NUMBER: LD6C50D010 EU6509030 6LBMSWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.5	10.6
10°-20°	1263.0	26.7
20°-30°	1421.8	30.1
30°-40°	880.4	18.6
40°-50°	350.6	7.4
50°-60°	159.6	3.4
60°-70°	91.7	1.9
70°-80°	43.6	0.9
80°-90°	12.7	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°	3187.3	67.4
0°-40°	4067.7	86.1
0°-60°	4578.0	96.9
0°-90°	4726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5489	5489	5489	5489	5489	
5°	5676	5572	5340	5224	5219	535
15°	5030	4812	4438	4258	4246	1392
25°	3351	3261	3045	3121	3171	1506
35°	1298	1291	1175	1636	1731	834
45°	308	308	294	639	677	261
55°	52	50	62	379	431	52
65°	24	21	31	211	213	23
75°	12	12	17	90	92	12
85°	2	2	10	21	21	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°	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2
2.5°	5614.7	5562.6	5550.8	5505.8	5430.0	5387.4	5361.3	5342.4	5375.5
5°	5676.3	5619.4	5572.1	5479.7	5340.0	5261.9	5224.0	5193.2	5219.2
7.5°	5631.3	5550.8	5486.8	5358.9	5181.3	5060.6	5008.5	4972.9	4996.6
10°	5467.9	5370.8	5297.4	5145.8	4951.6	4807.2	4743.2	4710.1	4733.8
12.5°	5254.7	5174.2	5062.9	4897.2	4688.8	4537.2	4489.9	4463.8	4473.3
15°	5029.8	4935.1	4811.9	4646.2	4437.8	4286.2	4257.8	4241.2	4246.0
17.5°	4703.0	4610.6	4504.1	4343.0	4151.2	4028.1	4028.1	4016.2	4023.4
20°	4295.7	4246.0	4141.8	4006.8	3843.4	3732.1	3767.6	3755.8	3770.0
22.5°	3855.2	3817.3	3727.3	3616.0	3478.7	3391.1	3469.2	3466.9	3485.8
25°	3350.8	3322.4	3260.8	3166.1	3045.3	2990.9	3121.1	3121.1	3170.8
27.5°	2794.3	2765.9	2723.3	2642.8	2543.3	2526.7	2718.5	2742.2	2796.7
30°	2226.0	2207.0	2183.4	2110.0	2027.1	2057.9	2323.1	2363.3	2424.9
32.5°	1719.2	1707.4	1700.3	1634.0	1560.6	1662.4	1965.5	2017.6	2079.2
35°	1297.7	1271.7	1290.6	1240.9	1174.6	1302.4	1636.3	1681.3	1731.1
37.5°	956.7	937.8	954.3	918.8	859.6	999.3	1314.3	1342.7	1375.8
40°	686.7	670.2	684.4	663.1	615.7	745.9	1030.1	1060.9	1075.1
42.5°	487.8	459.4	473.6	457.0	433.4	561.2	809.9	838.3	843.0
45°	307.8	298.4	307.8	298.4	293.6	416.8	639.4	665.4	677.3
47.5°	187.1	175.2	175.2	170.5	175.2	307.8	528.1	566.0	584.9
50°	106.6	101.8	99.5	97.1	106.6	241.5	457.0	499.7	523.3
52.5°	71.0	68.7	68.7	66.3	78.1	203.7	412.0	449.9	473.6
55°	52.1	49.7	49.7	49.7	61.6	175.2	378.9	409.7	431.0
57.5°	40.3	40.3	40.3	37.9	52.1	149.2	338.6	355.2	371.8
60°	33.2	30.8	30.8	30.8	42.6	127.9	291.3	298.4	307.8
62.5°	26.0	26.0	26.0	26.0	35.5	113.7	251.0	251.0	255.8
65°	23.7	21.3	21.3	21.3	30.8	99.5	210.8	208.4	213.1
67.5°	18.9	18.9	18.9	18.9	26.0	85.3	172.9	170.5	175.2
70°	16.6	16.6	16.6	16.6	21.3	71.0	139.7	137.3	142.1
72.5°	14.2	14.2	14.2	14.2	18.9	59.2	111.3	111.3	113.7
75°	11.8	11.8	11.8	11.8	16.6	45.0	90.0	90.0	92.4
77.5°	9.5	9.5	9.5	9.5	11.8	35.5	68.7	66.3	66.3
80°	4.7	7.1	7.1	7.1	9.5	26.0	49.7	45.0	45.0
82.5°	2.4	4.7	4.7	4.7	9.5	18.9	33.2	30.8	30.8
85°	2.4	2.4	2.4	7.1	9.5	14.2	21.3	21.3	21.3
87.5°	0.0	2.4	4.7	9.5	11.8	11.8	14.2	11.8	11.8
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)