

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: P799768

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799768  
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: LD6C45D010 EU6459050 6LBMDSWLI  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

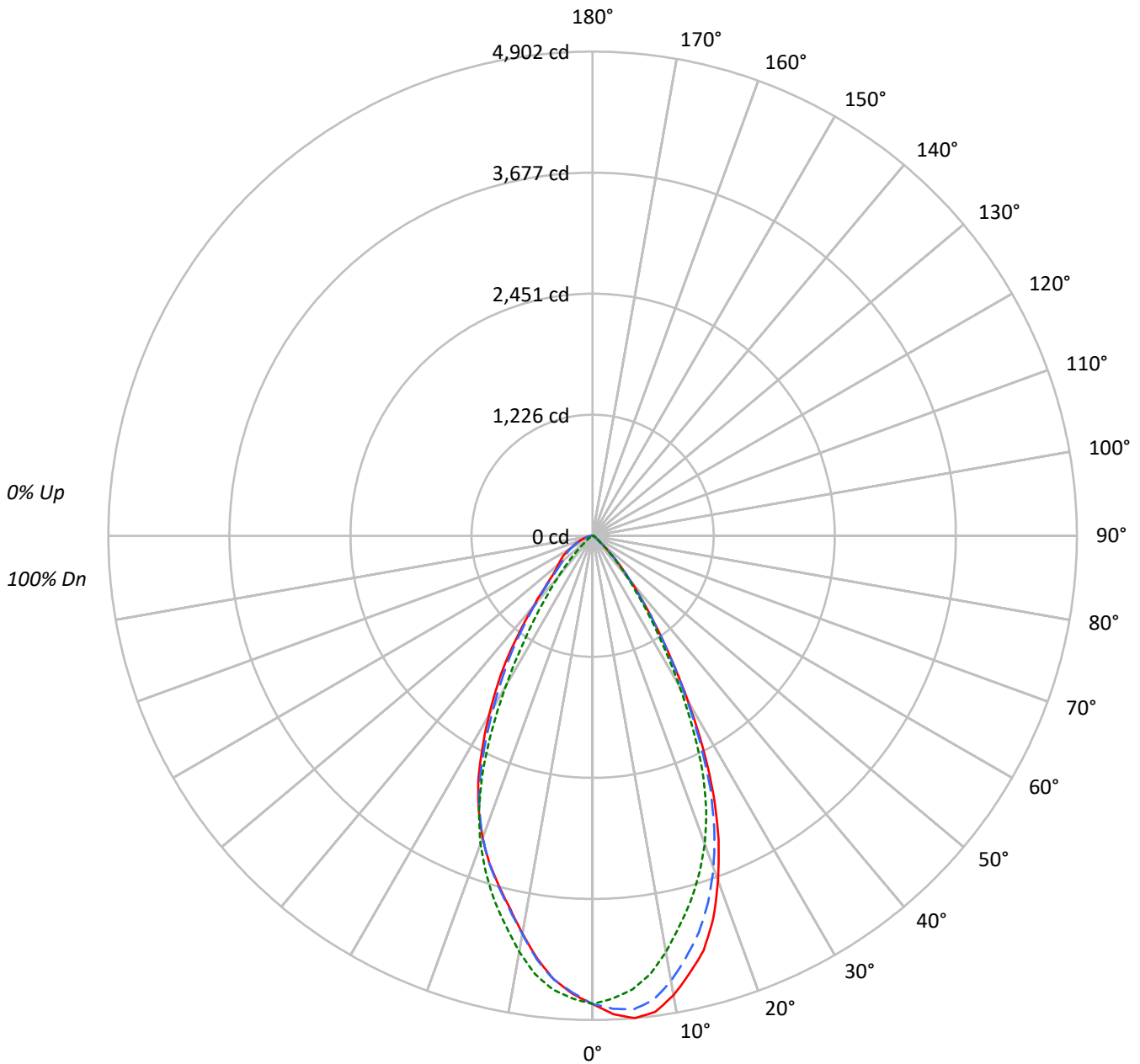
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4081.0 lumens  
Efficiency: N/A  
Efficacy: 82.3 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): 49.6  
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°	259848	259848	259848
5°	269733	253752	248013
10°	262832	238016	227545
15°	246500	217487	208089
20°	216400	193614	189915
25°	175020	159064	165620
30°	121677	110802	132552
35°	74994	67880	100037
40°	42437	38050	66439
45°	20607	19661	45338
50°	7846	7846	38540
55°	4301	5085	35573
60°	3136	4035	29142
65°	2646	3450	23868
70°	2292	2949	19667
75°	2160	3029	16902
80°	1294	2589	12281
85°	1258	5158	11573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.9	10.6
10°-20°	1090.6	26.7
20°-30°	1227.8	30.1
30°-40°	760.2	18.6
40°-50°	302.7	7.4
50°-60°	137.8	3.4
60°-70°	79.2	1.9
70°-80°	37.6	0.9
80°-90°	11.0	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°	2752.3	67.4
0°-40°	3512.6	86.1
0°-60°	3953.2	96.9
0°-90°	4081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4740	4740	4740	4740	4740	
5°	4902	4812	4611	4511	4507	462
15°	4343	4155	3832	3677	3666	1202
25°	2894	2816	2630	2695	2738	1301
35°	1121	1114	1014	1413	1495	720
45°	266	266	254	552	585	225
55°	45	43	53	327	372	45
65°	20	18	27	182	184	20
75°	10	10	14	78	80	11
85°	2	2	8	18	18	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°	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0
2.5°	4848.4	4803.4	4793.2	4754.3	4688.9	4652.1	4629.6	4613.2	4641.9
5°	4901.6	4852.5	4811.6	4731.8	4611.2	4543.7	4511.0	4484.4	4506.9
7.5°	4862.7	4793.2	4738.0	4627.6	4474.2	4369.9	4324.9	4294.2	4314.7
10°	4721.6	4637.8	4574.4	4443.5	4275.8	4151.1	4095.9	4067.3	4087.7
12.5°	4537.6	4468.1	4372.0	4228.8	4048.9	3918.0	3877.1	3854.6	3862.8
15°	4343.3	4261.5	4155.2	4012.1	3832.1	3701.2	3676.7	3662.4	3666.5
17.5°	4061.1	3981.4	3889.4	3750.3	3584.7	3478.3	3478.3	3468.1	3474.2
20°	3709.4	3666.5	3576.5	3459.9	3318.8	3222.7	3253.4	3243.2	3255.4
22.5°	3329.1	3296.3	3218.6	3122.5	3003.9	2928.3	2995.7	2993.7	3010.1
25°	2893.5	2869.0	2815.8	2734.0	2629.7	2582.7	2695.2	2695.2	2738.1
27.5°	2413.0	2388.4	2351.6	2282.1	2196.2	2181.9	2347.5	2368.0	2415.0
30°	1922.2	1905.8	1885.4	1822.0	1750.4	1777.0	2006.0	2040.8	2094.0
32.5°	1484.6	1474.4	1468.2	1411.0	1347.6	1435.5	1697.2	1742.2	1795.4
35°	1120.6	1098.1	1114.5	1071.5	1014.3	1124.7	1413.0	1451.9	1494.8
37.5°	826.1	809.8	824.1	793.4	742.3	862.9	1134.9	1159.4	1188.1
40°	593.0	578.7	591.0	572.6	531.7	644.1	889.5	916.1	928.4
42.5°	421.2	396.7	409.0	394.7	374.2	484.6	699.3	723.9	728.0
45°	265.8	257.7	265.8	257.7	253.6	359.9	552.1	574.6	584.8
47.5°	161.5	151.3	151.3	147.2	151.3	265.8	456.0	488.7	505.1
50°	92.0	87.9	85.9	83.8	92.0	208.6	394.7	431.5	451.9
52.5°	61.3	59.3	59.3	57.3	67.5	175.9	355.8	388.5	409.0
55°	45.0	42.9	42.9	42.9	53.2	151.3	327.2	353.8	372.2
57.5°	34.8	34.8	34.8	32.7	45.0	128.8	292.4	306.7	321.0
60°	28.6	26.6	26.6	26.6	36.8	110.4	251.5	257.7	265.8
62.5°	22.5	22.5	22.5	22.5	30.7	98.2	216.8	216.8	220.8
65°	20.4	18.4	18.4	18.4	26.6	85.9	182.0	179.9	184.0
67.5°	16.4	16.4	16.4	16.4	22.5	73.6	149.3	147.2	151.3
70°	14.3	14.3	14.3	14.3	18.4	61.3	120.6	118.6	122.7
72.5°	12.3	12.3	12.3	12.3	16.4	51.1	96.1	96.1	98.2
75°	10.2	10.2	10.2	10.2	14.3	38.9	77.7	77.7	79.8
77.5°	8.2	8.2	8.2	8.2	10.2	30.7	59.3	57.3	57.3
80°	4.1	6.1	6.1	6.1	8.2	22.5	42.9	38.9	38.9
82.5°	2.0	4.1	4.1	4.1	8.2	16.4	28.6	26.6	26.6
85°	2.0	2.0	2.0	6.1	8.2	12.3	18.4	18.4	18.4
87.5°	0.0	2.0	4.1	8.2	10.2	10.2	12.3	10.2	10.2
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)