

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: P799816

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799816  
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 EU6509040 6LBMDSWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

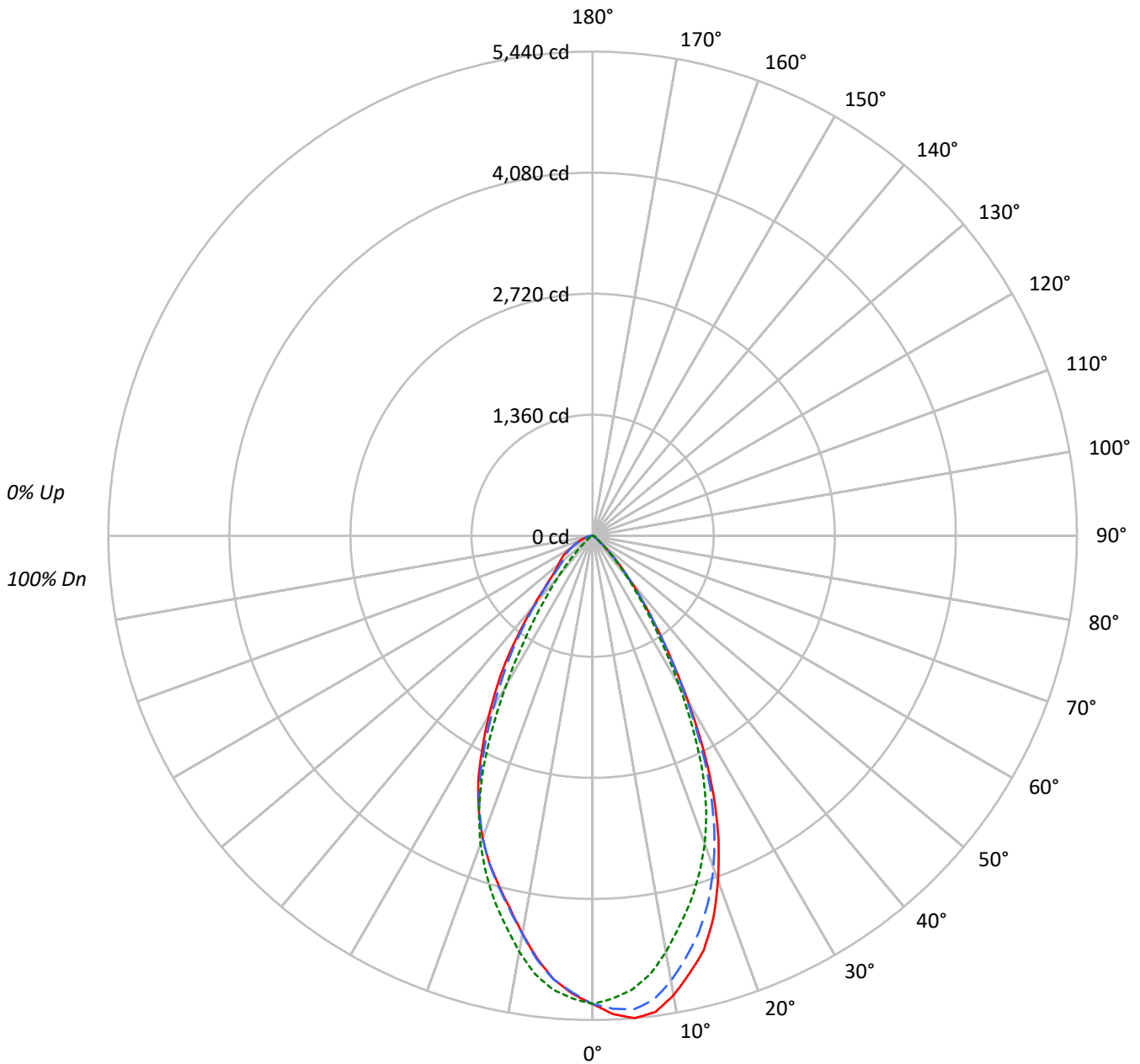
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4529.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 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					20					
RC	80					70					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				100				
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73				73				
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67				
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63				63				
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59				59				
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55				55				
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52				52				
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49				49				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	288376	288376	288376
5°	299344	281608	275241
10°	291689	264146	252528
15°	273560	241363	230932
20°	240156	214872	210765
25°	194231	176526	183803
30°	135033	122968	147099
35°	83226	75329	111019
40°	47095	42222	73731
45°	22871	21816	50315
50°	8708	8708	42770
55°	4769	5639	39473
60°	3487	4473	32344
65°	2945	3827	26488
70°	2549	3270	21831
75°	2393	3368	18745
80°	1421	2873	13607
85°	1447	5724	12831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.6	10.6
10°-20°	1210.4	26.7
20°-30°	1362.5	30.1
30°-40°	843.7	18.6
40°-50°	336.0	7.4
50°-60°	153.0	3.4
60°-70°	87.9	1.9
70°-80°	41.7	0.9
80°-90°	12.2	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°	3054.5	67.4
0°-40°	3898.2	86.1
0°-60°	4387.1	96.9
0°-90°	4529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5260	5260	5260	5260	5260	
5°	5440	5340	5117	5006	5002	512
15°	4820	4611	4253	4080	4069	1334
25°	3211	3125	2918	2991	3039	1443
35°	1244	1237	1126	1568	1659	799
45°	295	295	281	613	649	250
55°	50	48	59	363	413	50
65°	23	20	30	202	204	22
75°	11	11	16	86	88	12
85°	2	2	9	20	20	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°	5260.4	5260.4	5260.4	5260.4	5260.4	5260.4	5260.4	5260.4	5260.4
2.5°	5380.7	5330.7	5319.4	5276.3	5203.6	5162.8	5137.8	5119.7	5151.4
5°	5439.7	5385.2	5339.8	5251.3	5117.4	5042.5	5006.2	4976.7	5001.7
7.5°	5396.5	5319.4	5258.1	5135.6	4965.4	4849.6	4799.7	4765.7	4788.3
10°	5240.0	5146.9	5076.6	4931.3	4745.2	4606.8	4545.5	4513.8	4536.5
12.5°	5035.7	4958.6	4851.9	4693.0	4493.3	4348.1	4302.7	4277.7	4286.8
15°	4820.1	4729.3	4611.3	4452.5	4252.8	4107.5	4080.3	4064.4	4069.0
17.5°	4506.9	4418.4	4316.3	4162.0	3978.2	3860.2	3860.2	3848.8	3855.6
20°	4116.6	4069.0	3969.1	3839.8	3683.2	3576.5	3610.6	3599.2	3612.8
22.5°	3694.5	3658.2	3572.0	3465.3	3333.7	3249.7	3324.6	3322.3	3340.5
25°	3211.1	3183.9	3124.9	3034.1	2918.4	2866.2	2991.0	2991.0	3038.7
27.5°	2677.8	2650.6	2609.8	2532.6	2437.3	2421.4	2605.2	2627.9	2680.1
30°	2133.2	2115.0	2092.3	2022.0	1942.6	1972.1	2226.2	2264.8	2323.8
32.5°	1647.6	1636.2	1629.4	1565.9	1495.5	1593.1	1883.6	1933.5	1992.5
35°	1243.6	1218.6	1236.8	1189.1	1125.6	1248.1	1568.1	1611.2	1658.9
37.5°	916.8	898.7	914.6	880.5	823.8	957.7	1259.5	1286.7	1318.5
40°	658.1	642.2	655.8	635.4	590.0	714.8	987.2	1016.7	1030.3
42.5°	467.5	440.3	453.9	438.0	415.3	537.8	776.1	803.4	807.9
45°	295.0	285.9	295.0	285.9	281.4	399.4	612.7	637.7	649.0
47.5°	179.3	167.9	167.9	163.4	167.9	295.0	506.1	542.4	560.5
50°	102.1	97.6	95.3	93.0	102.1	231.5	438.0	478.8	501.5
52.5°	68.1	65.8	65.8	63.5	74.9	195.2	394.9	431.2	453.9
55°	49.9	47.7	47.7	47.7	59.0	167.9	363.1	392.6	413.0
57.5°	38.6	38.6	38.6	36.3	49.9	143.0	324.5	340.4	356.3
60°	31.8	29.5	29.5	29.5	40.8	122.5	279.1	285.9	295.0
62.5°	25.0	25.0	25.0	25.0	34.0	108.9	240.6	240.6	245.1
65°	22.7	20.4	20.4	20.4	29.5	95.3	202.0	199.7	204.2
67.5°	18.2	18.2	18.2	18.2	25.0	81.7	165.7	163.4	167.9
70°	15.9	15.9	15.9	15.9	20.4	68.1	133.9	131.6	136.2
72.5°	13.6	13.6	13.6	13.6	18.2	56.7	106.7	106.7	108.9
75°	11.3	11.3	11.3	11.3	15.9	43.1	86.2	86.2	88.5
77.5°	9.1	9.1	9.1	9.1	11.3	34.0	65.8	63.5	63.5
80°	4.5	6.8	6.8	6.8	9.1	25.0	47.7	43.1	43.1
82.5°	2.3	4.5	4.5	4.5	9.1	18.2	31.8	29.5	29.5
85°	2.3	2.3	2.3	6.8	9.1	13.6	20.4	20.4	20.4
87.5°	0.0	2.3	4.5	9.1	11.3	11.3	13.6	11.3	11.3
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)