

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: P799812

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDDWWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799812  
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 EU6509040 6LBMDDWWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

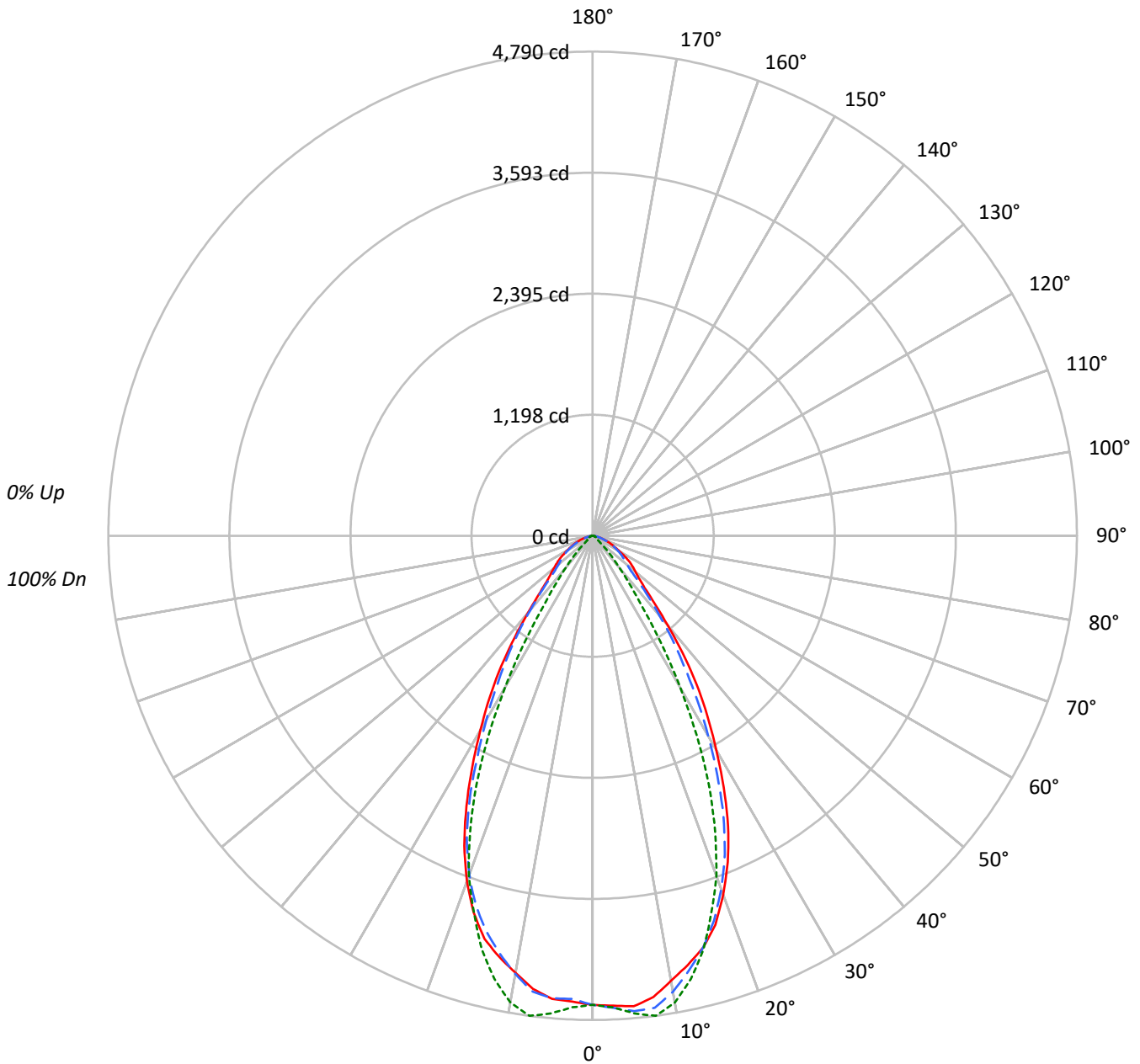
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4725.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 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°	254431	254431	254431
5°	257093	260989	253064
10°	248765	260984	244429
15°	239422	240365	234332
20°	220356	208787	212089
25°	191775	164641	178637
30°	154669	109390	140319
35°	119913	56403	105377
40°	82276	29226	70954
45°	56370	14645	49780
50°	46915	6243	42685
55°	42197	5419	38135
60°	33385	5175	31840
65°	27565	4592	27253
70°	22327	4167	22327
75°	16500	4490	17495
80°	9692	3725	10450
85°	7422	4466	7422



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.8	9.4
10°-20°	1159.6	24.5
20°-30°	1323.6	28.0
30°-40°	877.8	18.6
40°-50°	423.4	9.0
50°-60°	260.4	5.5
60°-70°	157.6	3.3
70°-80°	66.3	1.4
80°-90°	14.6	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°	2924.9	61.9
0°-40°	3802.7	80.5
0°-60°	4486.5	95.0
0°-90°	4725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4641	4641	4641	4641	4641	
5°	4672	4722	4743	4592	4599	439
15°	4219	4219	4235	4056	4129	1176
25°	3170	3064	2722	2880	2953	1438
35°	1792	1579	843	1473	1575	1108
45°	727	637	189	595	642	593
55°	442	359	57	359	399	388
65°	212	203	35	191	210	213
75°	78	78	21	73	83	83
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°	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2
2.5°	4653.0	4660.1	4674.2	4676.6	4669.5	4624.7	4586.9	4601.1	4612.9
5°	4671.9	4686.1	4721.5	4754.5	4742.7	4667.2	4591.6	4589.3	4598.7
7.5°	4603.4	4636.5	4709.7	4792.3	4789.9	4660.1	4549.1	4520.8	4520.8
10°	4468.9	4499.6	4579.8	4690.8	4688.4	4525.5	4402.8	4388.6	4391.0
12.5°	4348.5	4362.6	4402.8	4490.1	4490.1	4329.6	4235.2	4249.3	4268.2
15°	4218.6	4228.1	4218.6	4247.0	4235.2	4103.0	4055.7	4100.6	4128.9
17.5°	4034.5	4039.2	3989.6	3951.9	3907.0	3824.4	3836.2	3902.3	3909.4
20°	3777.2	3807.9	3718.2	3621.4	3578.9	3501.0	3567.1	3640.2	3635.5
22.5°	3493.9	3529.3	3413.6	3253.1	3165.7	3135.1	3253.1	3319.2	3316.8
25°	3170.5	3196.4	3064.2	2840.0	2721.9	2717.2	2880.1	2948.6	2953.3
27.5°	2806.9	2816.4	2667.6	2374.9	2228.5	2263.9	2469.3	2563.8	2575.6
30°	2443.4	2438.6	2285.2	1921.6	1728.1	1824.8	2101.1	2204.9	2216.7
32.5°	2110.5	2096.3	1921.6	1487.3	1255.9	1399.9	1763.5	1872.1	1890.9
35°	1791.8	1768.2	1579.3	1100.1	842.8	1057.6	1473.1	1567.5	1574.6
37.5°	1458.9	1447.1	1298.4	823.9	587.8	802.6	1201.6	1270.1	1263.0
40°	1149.7	1149.7	1026.9	611.4	408.4	597.3	951.4	1012.8	991.5
42.5°	901.8	913.6	809.7	450.9	290.4	443.8	753.1	809.7	786.1
45°	727.1	727.1	637.4	335.2	188.9	330.5	594.9	646.8	642.1
47.5°	616.2	606.7	517.0	245.5	103.9	247.9	500.5	564.2	561.9
50°	550.1	535.9	443.8	193.6	73.2	205.4	439.1	498.1	500.5
52.5°	498.1	476.9	399.0	172.3	63.7	179.4	399.0	446.2	446.2
55°	441.5	429.7	358.8	153.4	56.7	160.5	358.8	401.3	399.0
57.5°	373.0	370.6	321.1	139.3	51.9	141.6	321.1	347.0	337.6
60°	304.5	314.0	278.6	125.1	47.2	127.5	273.8	295.1	290.4
62.5°	255.0	266.8	243.2	111.0	40.1	113.3	231.4	252.6	247.9
65°	212.5	221.9	203.0	94.4	35.4	94.4	191.2	210.1	210.1
67.5°	174.7	181.8	167.6	77.9	30.7	77.9	155.8	172.3	174.7
70°	139.3	144.0	132.2	61.4	26.0	63.7	122.8	139.3	139.3
72.5°	108.6	111.0	103.9	49.6	23.6	49.6	94.4	108.6	108.6
75°	77.9	82.6	77.9	37.8	21.2	37.8	73.2	80.3	82.6
77.5°	44.9	56.7	56.7	30.7	16.5	28.3	51.9	54.3	54.3
80°	30.7	35.4	40.1	21.2	11.8	21.2	33.1	35.4	33.1
82.5°	21.2	23.6	23.6	14.2	9.4	14.2	21.2	23.6	21.2
85°	11.8	16.5	16.5	11.8	7.1	9.4	11.8	14.2	11.8
87.5°	7.1	9.4	11.8	9.4	7.1	7.1	7.1	7.1	4.7
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)