

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: P799811

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDDWMW**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799811  
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 6LBMDDWMW  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

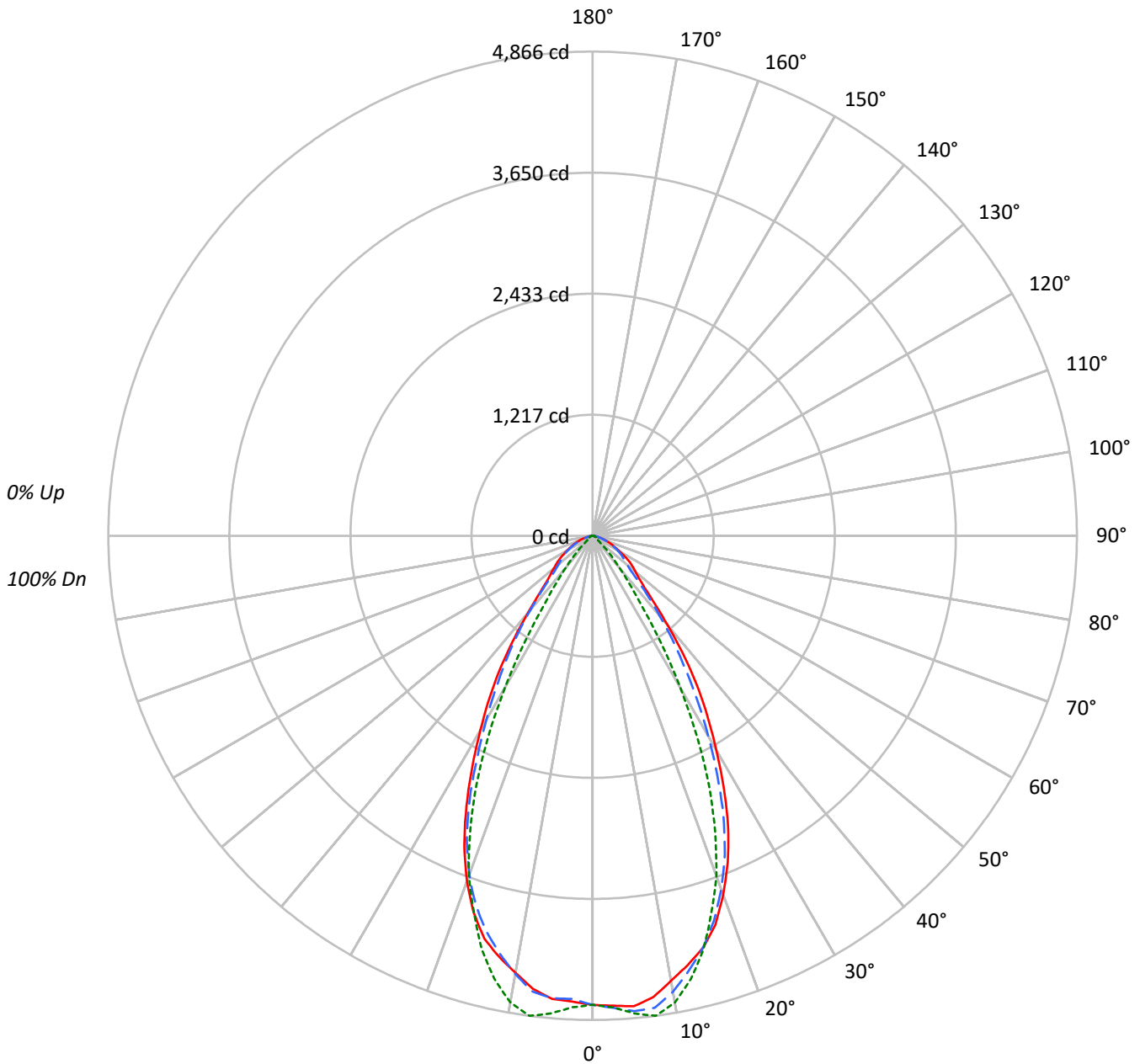
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4800.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 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					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								
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°	258472	258472	258472
5°	261170	265132	257082
10°	252712	265125	248309
15°	243225	244178	238055
20°	223850	212101	215455
25°	194818	167254	181474
30°	157119	111125	142547
35°	121813	57300	107050
40°	83578	29691	72078
45°	57262	14878	50571
50°	47657	6337	43359
55°	42866	5505	38737
60°	33923	5263	32344
65°	27993	4670	27681
70°	22680	4231	22680
75°	16754	4575	17771
80°	9850	3788	10607
85°	7548	4529	7548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.8	9.4
10°-20°	1178.0	24.5
20°-30°	1344.6	28.0
30°-40°	891.7	18.6
40°-50°	430.1	9.0
50°-60°	264.6	5.5
60°-70°	160.1	3.3
70°-80°	67.4	1.4
80°-90°	14.9	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°	2971.4	61.9
0°-40°	3863.1	80.5
0°-60°	4557.7	95.0
0°-90°	4800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4715	4715	4715	4715	4715	
5°	4746	4796	4818	4664	4672	446
15°	4286	4286	4302	4120	4194	1194
25°	3221	3113	2765	2926	3000	1460
35°	1820	1604	856	1496	1600	1126
45°	739	648	192	604	652	602
55°	448	364	58	364	405	394
65°	216	206	36	194	213	217
75°	79	79	22	74	84	85
85°	12	17	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°	4714.9	4714.9	4714.9	4714.9	4714.9	4714.9	4714.9	4714.9	4714.9
2.5°	4726.9	4734.1	4748.4	4750.8	4743.6	4698.1	4659.7	4674.1	4686.1
5°	4746.0	4760.4	4796.4	4830.0	4818.0	4741.2	4664.5	4662.1	4671.7
7.5°	4676.5	4710.1	4784.4	4868.4	4866.0	4734.1	4621.3	4592.6	4592.6
10°	4539.8	4571.0	4652.5	4765.2	4762.8	4597.4	4472.6	4458.3	4460.7
12.5°	4417.5	4431.9	4472.6	4561.4	4561.4	4398.3	4302.4	4316.8	4336.0
15°	4285.6	4295.2	4285.6	4314.4	4302.4	4168.1	4120.1	4165.7	4194.5
17.5°	4098.5	4103.3	4053.0	4014.6	3969.0	3885.1	3897.1	3964.2	3971.4
20°	3837.1	3868.3	3777.2	3678.8	3635.7	3556.5	3623.7	3698.0	3693.2
22.5°	3549.3	3585.3	3467.8	3304.7	3216.0	3184.8	3304.7	3371.9	3369.5
25°	3220.8	3247.2	3112.9	2885.0	2765.1	2760.3	2925.8	2995.4	3000.2
27.5°	2851.5	2861.1	2710.0	2412.6	2263.9	2299.9	2508.5	2604.4	2616.4
30°	2482.1	2477.3	2321.5	1952.1	1755.5	1853.8	2134.4	2239.9	2251.9
32.5°	2144.0	2129.6	1952.1	1510.9	1275.8	1422.1	1791.5	1901.8	1921.0
35°	1820.2	1796.3	1604.4	1117.6	856.2	1074.4	1496.5	1592.4	1599.6
37.5°	1482.1	1470.1	1319.0	837.0	597.2	815.4	1220.7	1290.2	1283.0
40°	1167.9	1167.9	1043.2	621.1	414.9	606.7	966.5	1028.8	1007.2
42.5°	916.1	928.1	822.6	458.1	295.0	450.9	765.0	822.6	798.6
45°	738.6	738.6	647.5	340.5	191.9	335.7	604.3	657.1	652.3
47.5°	625.9	616.3	525.2	249.4	105.5	251.8	508.4	573.2	570.8
50°	558.8	544.4	450.9	196.7	74.3	208.6	446.1	506.0	508.4
52.5°	506.0	484.4	405.3	175.1	64.8	182.3	405.3	453.3	453.3
55°	448.5	436.5	364.5	155.9	57.6	163.1	364.5	407.7	405.3
57.5°	378.9	376.5	326.2	141.5	52.8	143.9	326.2	352.5	342.9
60°	309.4	319.0	283.0	127.1	48.0	129.5	278.2	299.8	295.0
62.5°	259.0	271.0	247.0	112.7	40.8	115.1	235.0	256.6	251.8
65°	215.8	225.4	206.2	95.9	36.0	95.9	194.3	213.4	213.4
67.5°	177.5	184.7	170.3	79.1	31.2	79.1	158.3	175.1	177.5
70°	141.5	146.3	134.3	62.4	26.4	64.8	124.7	141.5	141.5
72.5°	110.3	112.7	105.5	50.4	24.0	50.4	95.9	110.3	110.3
75°	79.1	83.9	79.1	38.4	21.6	38.4	74.3	81.5	83.9
77.5°	45.6	57.6	57.6	31.2	16.8	28.8	52.8	55.2	55.2
80°	31.2	36.0	40.8	21.6	12.0	21.6	33.6	36.0	33.6
82.5°	21.6	24.0	24.0	14.4	9.6	14.4	21.6	24.0	21.6
85°	12.0	16.8	16.8	12.0	7.2	9.6	12.0	14.4	12.0
87.5°	7.2	9.6	12.0	9.6	7.2	7.2	7.2	7.2	4.8
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)