

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: P799810

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDDWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799810  
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 6LBMDDWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

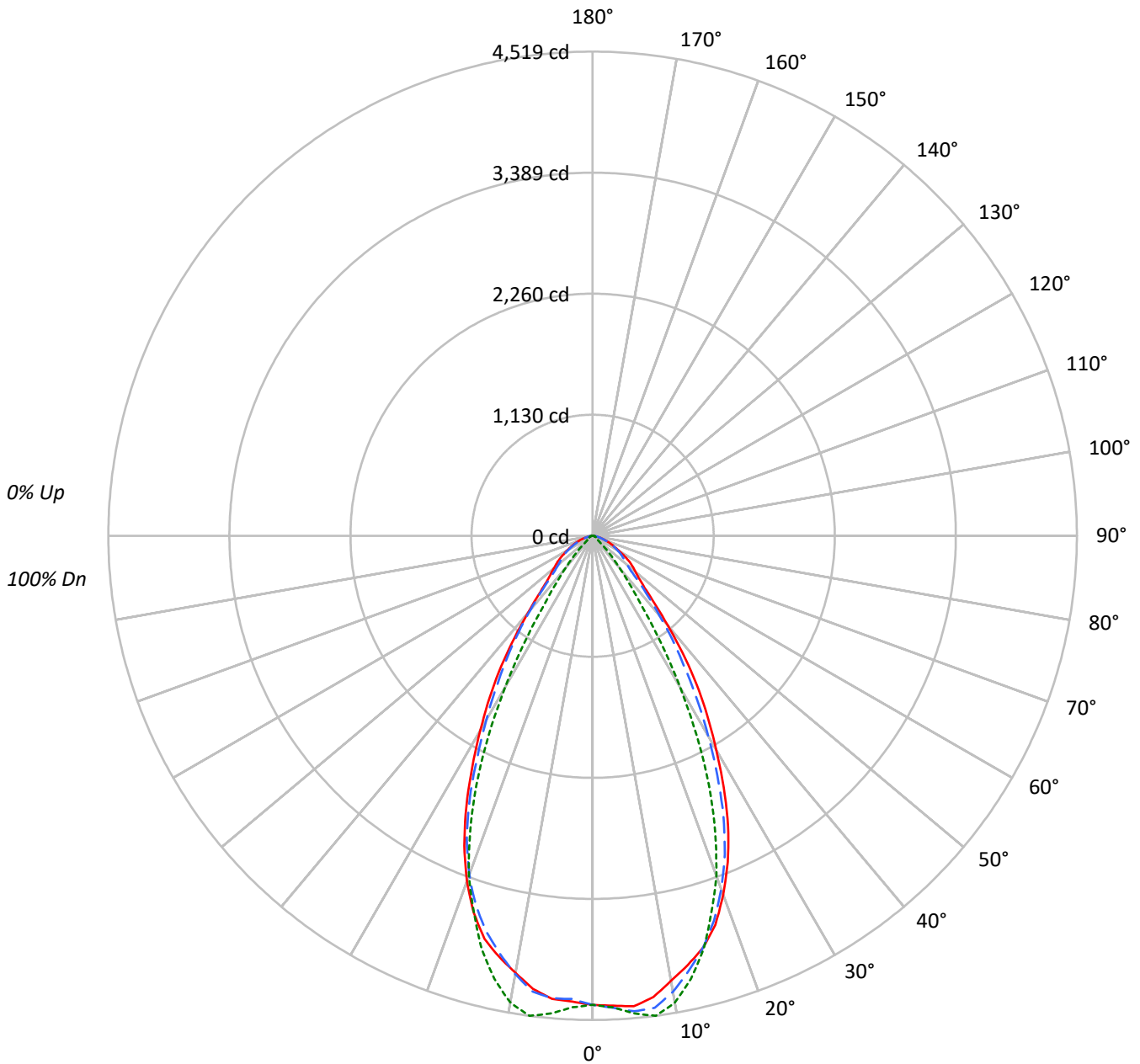
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4458.0 lumens  
Efficiency: N/A  
Efficacy: 76.3 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°	240052	240052	240052
5°	242565	246241	238762
10°	234704	246238	230613
15°	225892	226778	221091
20°	207901	196985	200107
25°	180936	155338	168542
30°	145928	103206	132394
35°	113133	53217	99421
40°	77624	27573	66947
45°	53184	13815	46966
50°	44263	5885	40272
55°	39807	5113	35975
60°	31500	4879	30041
65°	26008	4333	25710
70°	21061	3927	21061
75°	15568	4236	16521
80°	9155	3504	9850
85°	6982	4214	6982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.8	9.4
10°-20°	1094.0	24.5
20°-30°	1248.8	28.0
30°-40°	828.2	18.6
40°-50°	399.4	9.0
50°-60°	245.7	5.5
60°-70°	148.7	3.3
70°-80°	62.6	1.4
80°-90°	13.8	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°	2759.7	61.9
0°-40°	3587.8	80.5
0°-60°	4233.0	95.0
0°-90°	4458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4379	4379	4379	4379	4379	
5°	4408	4455	4475	4332	4339	414
15°	3980	3980	3996	3827	3896	1109
25°	2991	2891	2568	2717	2786	1356
35°	1690	1490	795	1390	1486	1046
45°	686	601	178	561	606	559
55°	416	339	54	339	376	366
65°	200	192	33	180	198	201
75°	74	74	20	69	78	79
85°	11	16	7	11	11	14
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°	4378.9	4378.9	4378.9	4378.9	4378.9	4378.9	4378.9	4378.9	4378.9
2.5°	4390.1	4396.8	4410.1	4412.3	4405.7	4363.3	4327.7	4341.1	4352.2
5°	4407.9	4421.3	4454.7	4485.8	4474.7	4403.4	4332.2	4329.9	4338.8
7.5°	4343.3	4374.5	4443.5	4521.5	4519.3	4396.8	4292.1	4265.3	4265.3
10°	4216.3	4245.3	4321.0	4425.7	4423.5	4269.8	4154.0	4140.6	4142.8
12.5°	4102.7	4116.1	4154.0	4236.4	4236.4	4084.9	3995.8	4009.2	4027.0
15°	3980.2	3989.1	3980.2	4007.0	3995.8	3871.1	3826.6	3868.9	3895.6
17.5°	3806.5	3811.0	3764.2	3728.6	3686.2	3608.3	3619.4	3681.8	3688.5
20°	3563.7	3592.7	3508.0	3416.7	3376.6	3303.1	3365.5	3434.5	3430.1
22.5°	3296.4	3329.9	3220.7	3069.3	2986.9	2957.9	3069.3	3131.6	3129.4
25°	2991.3	3015.8	2891.1	2679.5	2568.1	2563.7	2717.3	2781.9	2786.4
27.5°	2648.3	2657.2	2516.9	2240.7	2102.6	2136.0	2329.8	2418.9	2430.0
30°	2305.3	2300.8	2156.1	1813.0	1630.4	1721.7	1982.3	2080.3	2091.5
32.5°	1991.2	1977.9	1813.0	1403.2	1184.9	1320.8	1663.8	1766.3	1784.1
35°	1690.5	1668.3	1490.1	1037.9	795.2	997.8	1389.9	1478.9	1485.6
37.5°	1376.5	1365.4	1225.0	777.3	554.6	757.3	1133.7	1198.3	1191.6
40°	1084.7	1084.7	968.9	576.9	385.3	563.5	897.6	955.5	935.5
42.5°	850.8	862.0	764.0	425.4	274.0	418.7	710.5	764.0	741.7
45°	686.0	686.0	601.4	316.3	178.2	311.8	561.3	610.3	605.8
47.5°	581.3	572.4	487.8	231.6	98.0	233.9	472.2	532.3	530.1
50°	519.0	505.6	418.7	182.6	69.0	193.8	414.3	470.0	472.2
52.5°	470.0	449.9	376.4	162.6	60.1	169.3	376.4	421.0	421.0
55°	416.5	405.4	338.6	144.8	53.5	151.5	338.6	378.6	376.4
57.5°	351.9	349.7	302.9	131.4	49.0	133.6	302.9	327.4	318.5
60°	287.3	296.2	262.8	118.0	44.5	120.3	258.4	278.4	274.0
62.5°	240.6	251.7	229.4	104.7	37.9	106.9	218.3	238.3	233.9
65°	200.5	209.4	191.6	89.1	33.4	89.1	180.4	198.2	198.2
67.5°	164.8	171.5	158.1	73.5	29.0	73.5	147.0	162.6	164.8
70°	131.4	135.9	124.7	57.9	24.5	60.1	115.8	131.4	131.4
72.5°	102.5	104.7	98.0	46.8	22.3	46.8	89.1	102.5	102.5
75°	73.5	78.0	73.5	35.6	20.0	35.6	69.0	75.7	78.0
77.5°	42.3	53.5	53.5	29.0	15.6	26.7	49.0	51.2	51.2
80°	29.0	33.4	37.9	20.0	11.1	20.0	31.2	33.4	31.2
82.5°	20.0	22.3	22.3	13.4	8.9	13.4	20.0	22.3	20.0
85°	11.1	15.6	15.6	11.1	6.7	8.9	11.1	13.4	11.1
87.5°	6.7	8.9	11.1	8.9	6.7	6.7	6.7	6.7	4.5
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)