

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: P799675

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDSWWMH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799675  
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: LD6C40D010 EU6409030 6LBMDSWWMH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

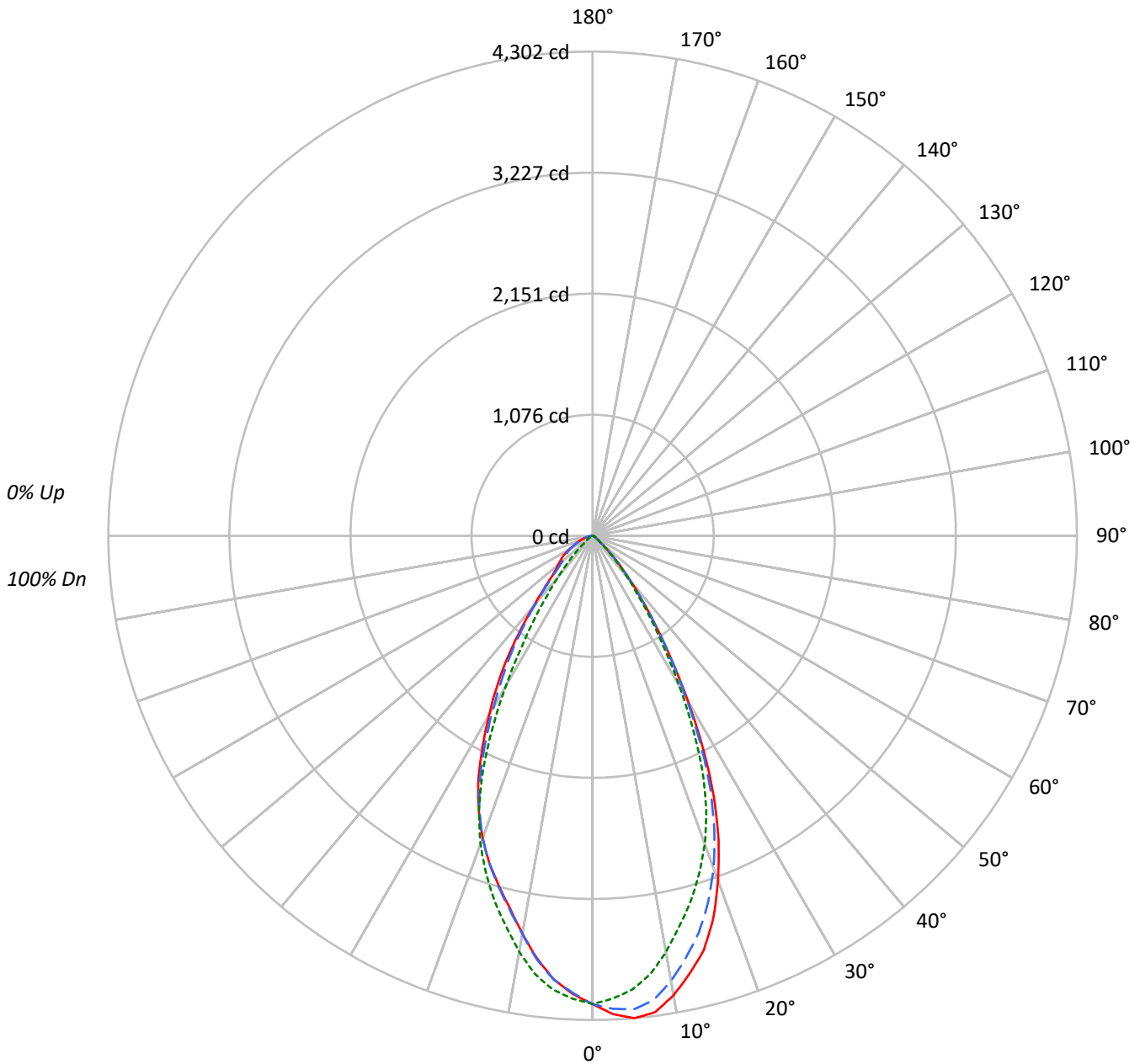
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3582.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 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): 47  
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				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	57	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°	228074	228074	228074
5°	236748	222727	217686
10°	230696	208914	199724
15°	216358	190892	182646
20°	189938	169940	166696
25°	153620	139617	145369
30°	106801	97255	116341
35°	65826	59575	87803
40°	37248	33398	58316
45°	18087	17258	39795
50°	6891	6891	33833
55°	3775	4463	31225
60°	2752	3541	25579
65°	2322	3022	20949
70°	2020	2597	17263
75°	1906	2669	14827
80°	1137	2273	10765
85°	1132	4529	10190



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.9	10.6
10°-20°	957.3	26.7
20°-30°	1077.6	30.1
30°-40°	667.3	18.6
40°-50°	265.7	7.4
50°-60°	121.0	3.4
60°-70°	69.5	1.9
70°-80°	33.0	0.9
80°-90°	9.6	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°	2415.8	67.4
0°-40°	3083.1	86.1
0°-60°	3469.8	96.9
0°-90°	3582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3582.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4160	4160	4160	4160	4160	
5°	4302	4223	4047	3959	3956	405
15°	3812	3647	3364	3227	3218	1055
25°	2540	2472	2308	2366	2403	1142
35°	984	978	890	1240	1312	632
45°	233	233	223	485	513	198
55°	40	38	47	287	327	39
65°	18	16	23	160	162	18
75°	9	9	13	68	70	9
85°	2	2	7	16	16	1
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°	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4	4160.4
2.5°	4255.6	4216.1	4207.1	4173.0	4115.6	4083.3	4063.5	4049.2	4074.3
5°	4302.2	4259.2	4223.3	4153.3	4047.4	3988.1	3959.4	3936.1	3955.8
7.5°	4268.1	4207.1	4158.7	4061.7	3927.1	3835.6	3796.1	3769.2	3787.1
10°	4144.3	4070.7	4015.1	3900.2	3753.0	3643.5	3595.1	3569.9	3587.9
12.5°	3982.8	3921.7	3837.4	3711.7	3553.8	3438.9	3403.0	3383.3	3390.5
15°	3812.2	3740.5	3647.1	3521.5	3363.5	3248.7	3227.1	3214.6	3218.2
17.5°	3564.6	3494.6	3413.8	3291.7	3146.4	3053.0	3053.0	3044.1	3049.4
20°	3255.8	3218.2	3139.2	3036.9	2913.0	2828.7	2855.6	2846.6	2857.4
22.5°	2922.0	2893.3	2825.1	2740.7	2636.6	2570.2	2629.4	2627.7	2642.0
25°	2539.7	2518.2	2471.5	2399.7	2308.2	2266.9	2365.6	2365.6	2403.3
27.5°	2117.9	2096.4	2064.1	2003.0	1927.7	1915.1	2060.5	2078.4	2119.7
30°	1687.2	1672.8	1654.8	1599.2	1536.4	1559.7	1760.7	1791.3	1837.9
32.5°	1303.1	1294.1	1288.7	1238.4	1182.8	1260.0	1489.7	1529.2	1575.9
35°	983.6	963.8	978.2	940.5	890.2	987.2	1240.2	1274.3	1312.0
37.5°	725.1	710.8	723.3	696.4	651.5	757.4	996.1	1017.7	1042.8
40°	520.5	507.9	518.7	502.6	466.7	565.4	780.8	804.1	814.9
42.5°	369.7	348.2	359.0	346.4	328.5	425.4	613.8	635.4	639.0
45°	233.3	226.2	233.3	226.2	222.6	315.9	484.6	504.4	513.3
47.5°	141.8	132.8	132.8	129.2	132.8	233.3	400.3	429.0	443.3
50°	80.8	77.2	75.4	73.6	80.8	183.1	346.4	378.7	396.7
52.5°	53.8	52.1	52.1	50.3	59.2	154.4	312.3	341.0	359.0
55°	39.5	37.7	37.7	37.7	46.7	132.8	287.2	310.5	326.7
57.5°	30.5	30.5	30.5	28.7	39.5	113.1	256.7	269.2	281.8
60°	25.1	23.3	23.3	23.3	32.3	96.9	220.8	226.2	233.3
62.5°	19.7	19.7	19.7	19.7	26.9	86.2	190.3	190.3	193.8
65°	17.9	16.2	16.2	16.2	23.3	75.4	159.7	157.9	161.5
67.5°	14.4	14.4	14.4	14.4	19.7	64.6	131.0	129.2	132.8
70°	12.6	12.6	12.6	12.6	16.2	53.8	105.9	104.1	107.7
72.5°	10.8	10.8	10.8	10.8	14.4	44.9	84.4	84.4	86.2
75°	9.0	9.0	9.0	9.0	12.6	34.1	68.2	68.2	70.0
77.5°	7.2	7.2	7.2	7.2	9.0	26.9	52.1	50.3	50.3
80°	3.6	5.4	5.4	5.4	7.2	19.7	37.7	34.1	34.1
82.5°	1.8	3.6	3.6	3.6	7.2	14.4	25.1	23.3	23.3
85°	1.8	1.8	1.8	5.4	7.2	10.8	16.2	16.2	16.2
87.5°	0.0	1.8	3.6	7.2	9.0	9.0	10.8	9.0	9.0
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)