

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: P799661

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDSWMW**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799661  
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 EU6409027 6LBMDSWMW  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

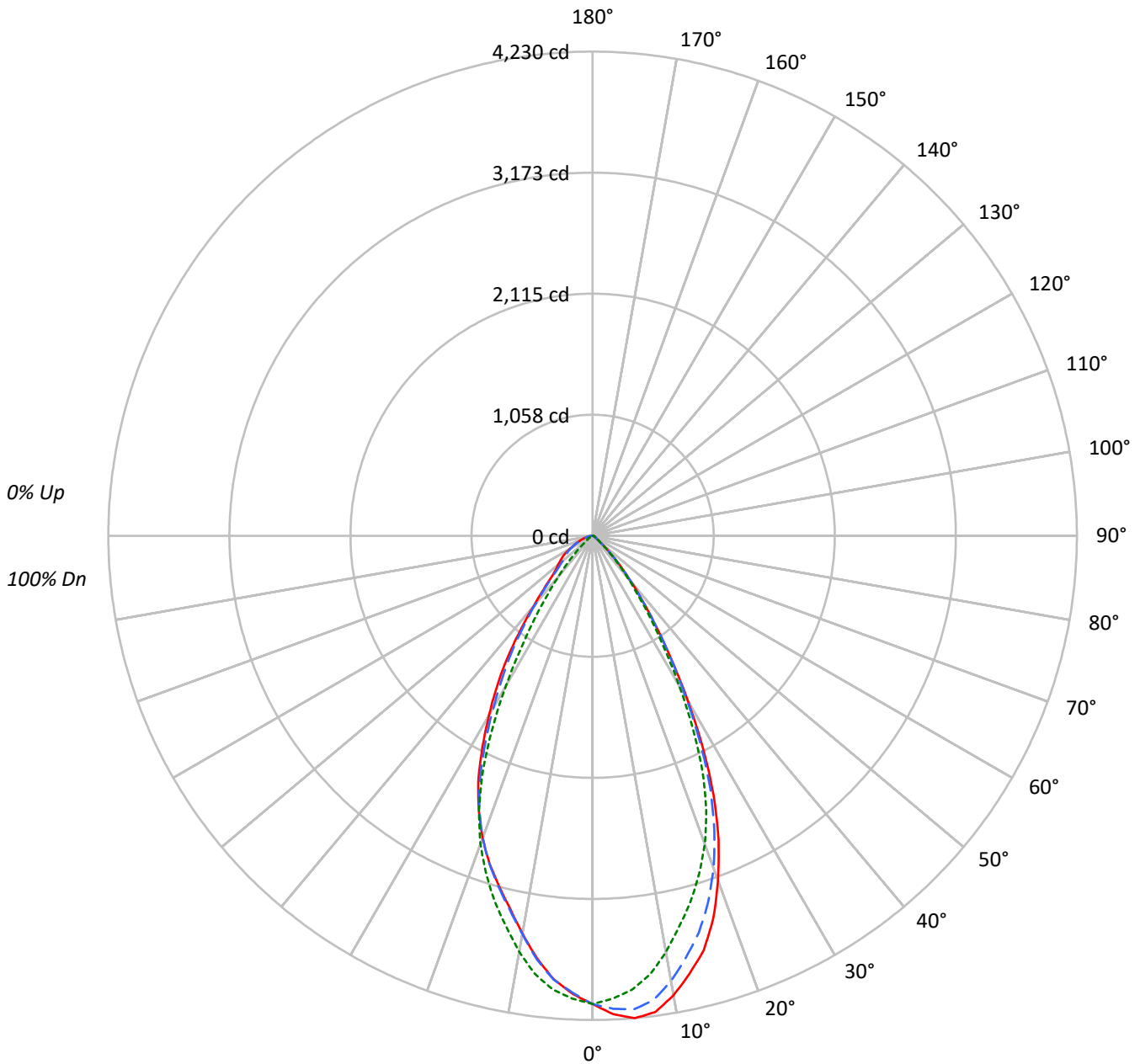
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3522.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 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					
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°	224258	224258	224258
5°	232786	218996	214043
10°	226833	205418	196378
15°	212737	187697	179581
20°	186759	167093	163902
25°	151049	137276	142932
30°	105010	95629	114391
35°	64721	58578	86337
40°	36626	32833	57336
45°	17785	16963	39128
50°	6772	6772	33261
55°	3708	4387	30699
60°	2708	3487	25151
65°	2283	2970	20599
70°	1988	2549	16974
75°	1864	2626	14572
80°	1105	2241	10576
85°	1132	4466	10001



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.5	10.6
10°-20°	941.2	26.7
20°-30°	1059.6	30.1
30°-40°	656.1	18.6
40°-50°	261.3	7.4
50°-60°	119.0	3.4
60°-70°	68.4	1.9
70°-80°	32.5	0.9
80°-90°	9.5	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°	2375.3	67.4
0°-40°	3031.4	86.1
0°-60°	3411.7	96.9
0°-90°	3522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4091	4091	4091	4091	4091	
5°	4230	4152	3980	3893	3890	398
15°	3748	3586	3307	3173	3164	1037
25°	2497	2430	2270	2326	2363	1123
35°	967	962	875	1220	1290	622
45°	229	229	219	476	505	194
55°	39	37	46	282	321	39
65°	18	16	23	157	159	17
75°	9	9	12	67	69	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°	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8
2.5°	4184.3	4145.5	4136.6	4103.1	4046.6	4014.9	3995.5	3981.3	4006.0
5°	4230.2	4187.8	4152.5	4083.7	3979.6	3921.3	3893.1	3870.2	3889.6
7.5°	4196.6	4136.6	4089.0	3993.7	3861.3	3771.3	3732.5	3706.0	3723.7
10°	4074.9	4002.5	3947.8	3834.9	3690.2	3582.5	3534.9	3510.1	3527.8
12.5°	3916.0	3856.0	3773.1	3649.6	3494.3	3381.3	3346.0	3326.6	3333.7
15°	3748.4	3677.8	3586.0	3462.5	3307.2	3194.3	3173.1	3160.7	3164.2
17.5°	3504.9	3436.0	3356.6	3236.6	3093.7	3001.9	3001.9	2993.1	2998.4
20°	3201.3	3164.2	3086.6	2986.0	2864.2	2781.3	2807.8	2798.9	2809.5
22.5°	2873.1	2844.8	2777.8	2694.8	2592.5	2527.2	2585.4	2583.6	2597.8
25°	2497.2	2476.0	2430.1	2359.5	2269.5	2228.9	2326.0	2326.0	2363.0
27.5°	2082.4	2061.3	2029.5	1969.5	1895.4	1883.0	2026.0	2043.6	2084.2
30°	1658.9	1644.8	1627.1	1572.4	1510.7	1533.6	1731.2	1761.2	1807.1
32.5°	1281.2	1272.4	1267.1	1217.7	1163.0	1238.9	1464.8	1503.6	1549.5
35°	967.1	947.7	961.8	924.7	875.3	970.6	1219.5	1253.0	1290.1
37.5°	713.0	698.9	711.2	684.7	640.6	744.7	979.5	1000.6	1025.3
40°	511.8	499.4	510.0	494.1	458.8	555.9	767.7	790.6	801.2
42.5°	363.5	342.4	353.0	340.6	323.0	418.3	603.6	624.7	628.3
45°	229.4	222.4	229.4	222.4	218.8	310.6	476.5	495.9	504.7
47.5°	139.4	130.6	130.6	127.1	130.6	229.4	393.5	421.8	435.9
50°	79.4	75.9	74.1	72.4	79.4	180.0	340.6	372.4	390.0
52.5°	52.9	51.2	51.2	49.4	58.2	151.8	307.1	335.3	353.0
55°	38.8	37.1	37.1	37.1	45.9	130.6	282.4	305.3	321.2
57.5°	30.0	30.0	30.0	28.2	38.8	111.2	252.4	264.7	277.1
60°	24.7	22.9	22.9	22.9	31.8	95.3	217.1	222.4	229.4
62.5°	19.4	19.4	19.4	19.4	26.5	84.7	187.1	187.1	190.6
65°	17.6	15.9	15.9	15.9	22.9	74.1	157.1	155.3	158.8
67.5°	14.1	14.1	14.1	14.1	19.4	63.5	128.8	127.1	130.6
70°	12.4	12.4	12.4	12.4	15.9	52.9	104.1	102.4	105.9
72.5°	10.6	10.6	10.6	10.6	14.1	44.1	82.9	82.9	84.7
75°	8.8	8.8	8.8	8.8	12.4	33.5	67.1	67.1	68.8
77.5°	7.1	7.1	7.1	7.1	8.8	26.5	51.2	49.4	49.4
80°	3.5	5.3	5.3	5.3	7.1	19.4	37.1	33.5	33.5
82.5°	1.8	3.5	3.5	3.5	7.1	14.1	24.7	22.9	22.9
85°	1.8	1.8	1.8	5.3	7.1	10.6	15.9	15.9	15.9
87.5°	0.0	1.8	3.5	7.1	8.8	8.8	10.6	8.8	8.8
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)