

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: P799671

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDSWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799671  
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 6LBMDSWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

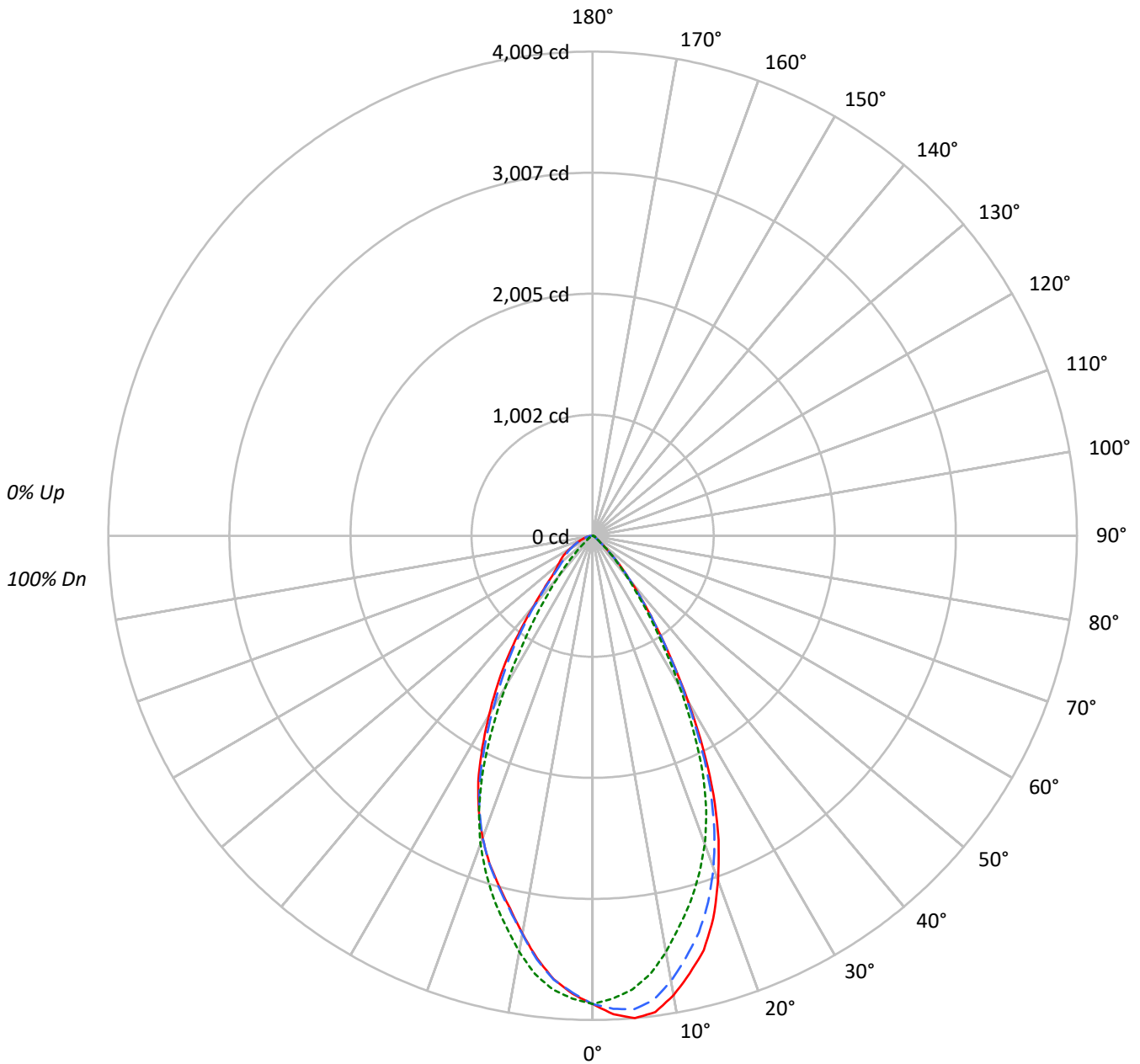
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3338.0 lumens  
Efficiency: N/A  
Efficacy: 71.0 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°	212538	212538	212538
5°	220625	207555	202861
10°	214982	194686	186119
15°	201624	177890	170200
20°	177005	158365	155344
25°	143155	130102	135468
30°	99522	90628	108415
35°	61342	55519	81827
40°	34708	31123	54345
45°	16854	16079	37089
50°	6422	6422	31521
55°	3517	4158	29093
60°	2566	3300	23836
65°	2166	2815	19522
70°	1875	2420	16092
75°	1779	2478	13810
80°	1042	2115	10039
85°	1069	4214	9498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.9	10.6
10°-20°	892.1	26.7
20°-30°	1004.2	30.1
30°-40°	621.8	18.6
40°-50°	247.6	7.4
50°-60°	112.7	3.4
60°-70°	64.8	1.9
70°-80°	30.8	0.9
80°-90°	9.0	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°	2251.2	67.4
0°-40°	2873.1	86.1
0°-60°	3233.4	96.9
0°-90°	3338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3877	3877	3877	3877	3877	
5°	4009	3936	3772	3690	3686	378
15°	3553	3399	3134	3007	2999	983
25°	2367	2303	2151	2204	2240	1064
35°	917	912	830	1156	1223	589
45°	217	217	207	452	478	184
55°	37	35	44	268	304	37
65°	17	15	22	149	150	16
75°	8	8	12	64	65	9
85°	2	2	7	15	15	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°	3877.0	3877.0	3877.0	3877.0	3877.0	3877.0	3877.0	3877.0	3877.0
2.5°	3965.7	3928.9	3920.5	3888.8	3835.2	3805.1	3786.7	3773.3	3796.8
5°	4009.2	3969.0	3935.6	3870.4	3771.7	3716.5	3689.7	3668.0	3686.4
7.5°	3977.4	3920.5	3875.4	3785.1	3659.6	3574.3	3537.5	3512.4	3529.1
10°	3862.0	3793.4	3741.6	3634.5	3497.4	3395.3	3350.2	3326.8	3343.5
12.5°	3711.5	3654.6	3576.0	3458.9	3311.7	3204.7	3171.2	3152.8	3159.5
15°	3552.6	3485.7	3398.7	3281.6	3134.4	3027.4	3007.3	2995.6	2998.9
17.5°	3321.7	3256.5	3181.3	3067.5	2932.0	2845.1	2845.1	2836.7	2841.7
20°	3034.1	2998.9	2925.3	2830.0	2714.6	2636.0	2661.1	2652.7	2662.8
22.5°	2723.0	2696.2	2632.6	2554.0	2457.0	2395.1	2450.3	2448.7	2462.0
25°	2366.7	2346.6	2303.1	2236.2	2150.9	2112.5	2204.5	2204.5	2239.6
27.5°	1973.6	1953.6	1923.5	1866.6	1796.4	1784.6	1920.1	1936.8	1975.3
30°	1572.2	1558.8	1542.1	1490.3	1431.7	1453.5	1640.8	1669.2	1712.7
32.5°	1214.3	1205.9	1200.9	1154.1	1102.2	1174.2	1388.2	1425.0	1468.5
35°	916.6	898.2	911.6	876.4	829.6	919.9	1155.8	1187.5	1222.7
37.5°	675.7	662.3	674.1	649.0	607.1	705.8	928.3	948.4	971.8
40°	485.0	473.3	483.4	468.3	434.9	526.9	727.6	749.3	759.4
42.5°	344.6	324.5	334.5	322.8	306.1	396.4	572.0	592.1	595.4
45°	217.4	210.7	217.4	210.7	207.4	294.4	451.6	470.0	478.4
47.5°	132.1	123.8	123.8	120.4	123.8	217.4	373.0	399.7	413.1
50°	75.3	71.9	70.2	68.6	75.3	170.6	322.8	352.9	369.6
52.5°	50.2	48.5	48.5	46.8	55.2	143.8	291.0	317.8	334.5
55°	36.8	35.1	35.1	35.1	43.5	123.8	267.6	289.4	304.4
57.5°	28.4	28.4	28.4	26.8	36.8	105.4	239.2	250.9	262.6
60°	23.4	21.7	21.7	21.7	30.1	90.3	205.7	210.7	217.4
62.5°	18.4	18.4	18.4	18.4	25.1	80.3	177.3	177.3	180.6
65°	16.7	15.1	15.1	15.1	21.7	70.2	148.9	147.2	150.5
67.5°	13.4	13.4	13.4	13.4	18.4	60.2	122.1	120.4	123.8
70°	11.7	11.7	11.7	11.7	15.1	50.2	98.7	97.0	100.4
72.5°	10.0	10.0	10.0	10.0	13.4	41.8	78.6	78.6	80.3
75°	8.4	8.4	8.4	8.4	11.7	31.8	63.6	63.6	65.2
77.5°	6.7	6.7	6.7	6.7	8.4	25.1	48.5	46.8	46.8
80°	3.3	5.0	5.0	5.0	6.7	18.4	35.1	31.8	31.8
82.5°	1.7	3.3	3.3	3.3	6.7	13.4	23.4	21.7	21.7
85°	1.7	1.7	1.7	5.0	6.7	10.0	15.1	15.1	15.1
87.5°	0.0	1.7	3.3	6.7	8.4	8.4	10.0	8.4	8.4
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)