

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: P799689

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDDWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799689  
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: LD6C40D010 EU6409040 6LBMDDWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

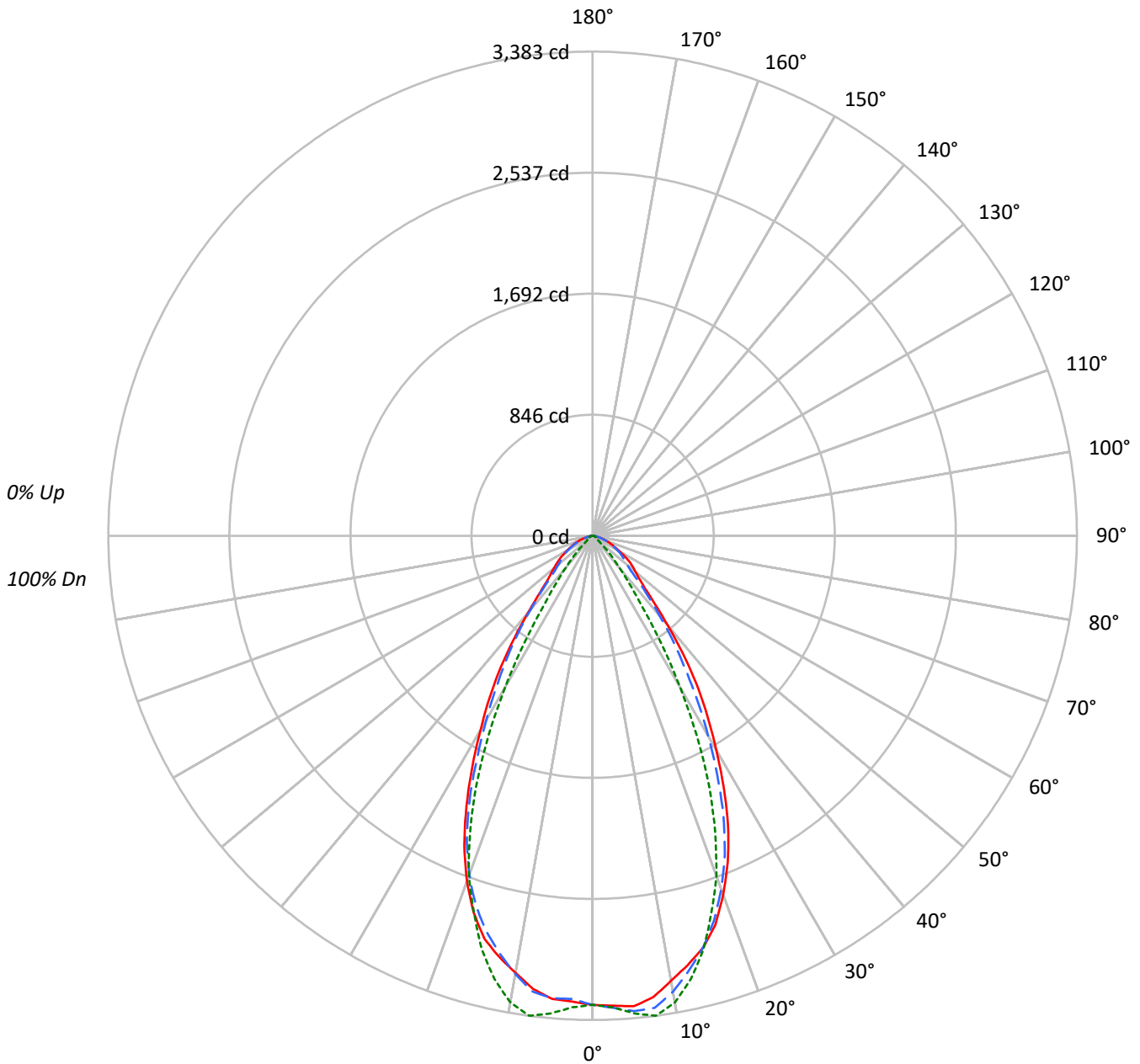
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3337.0 lumens  
Efficiency: N/A  
Efficacy: 71.0 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): 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

TEST NUMBER: P799689

CATALOG NUMBER: LD6C40D010 EU6409040 6LBMDDWH

### Luminous Intensity Polar Plot





TEST NUMBER: P799689

CATALOG NUMBER: LD6C40D010 EU6409040 6LBMDDWH

**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°	179690	179690	179690
5°	181570	184322	178725
10°	175687	184321	172625
15°	169093	169751	165495
20°	155624	147456	149790
25°	135437	116275	126158
30°	109232	77252	99098
35°	84684	39833	74425
40°	58109	20639	50108
45°	39810	10342	35159
50°	33133	4409	30148
55°	29801	3823	26933
60°	23584	3651	22487
65°	19470	3243	19250
70°	15772	2933	15772
75°	11649	3177	12370
80°	6851	2620	7356
85°	5221	3145	5221



TEST NUMBER: P799689

CATALOG NUMBER: LD6C40D010 EU6409040 6LBMDDWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.0	9.4
10°-20°	818.9	24.5
20°-30°	934.8	28.0
30°-40°	619.9	18.6
40°-50°	299.0	9.0
50°-60°	183.9	5.5
60°-70°	111.3	3.3
70°-80°	46.8	1.4
80°-90°	10.3	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°	2065.7	61.9
0°-40°	2685.6	80.5
0°-60°	3168.6	95.0
0°-90°	3337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3278	3278	3278	3278	3278	
5°	3300	3334	3350	3243	3248	310
15°	2979	2979	2991	2864	2916	830
25°	2239	2164	1922	2034	2086	1015
35°	1265	1115	595	1040	1112	783
45°	514	450	133	420	454	419
55°	312	253	40	253	282	274
65°	150	143	25	135	148	151
75°	55	55	15	52	58	59
85°	8	12	5	8	8	11
90°	0	0	0	0	0	



TEST NUMBER: P799689

CATALOG NUMBER: LD6C40D010 EU6409040 6LBMDDWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8	3277.8
2.5°	3286.2	3291.2	3301.2	3302.8	3297.8	3266.1	3239.5	3249.5	3257.8
5°	3299.5	3309.5	3334.5	3357.8	3349.5	3296.2	3242.8	3241.1	3247.8
7.5°	3251.1	3274.5	3326.2	3384.5	3382.9	3291.2	3212.8	3192.8	3192.8
10°	3156.1	3177.8	3234.5	3312.8	3311.2	3196.1	3109.4	3099.4	3101.1
12.5°	3071.1	3081.1	3109.4	3171.1	3171.1	3057.7	2991.0	3001.1	3014.4
15°	2979.4	2986.0	2979.4	2999.4	2991.0	2897.7	2864.3	2896.0	2916.0
17.5°	2849.3	2852.7	2817.7	2791.0	2759.3	2700.9	2709.3	2756.0	2761.0
20°	2667.6	2689.3	2625.9	2557.6	2527.6	2472.5	2519.2	2570.9	2567.6
22.5°	2467.5	2492.5	2410.8	2297.5	2235.8	2214.1	2297.5	2344.2	2342.5
25°	2239.1	2257.5	2164.1	2005.7	1922.3	1919.0	2034.0	2082.4	2085.7
27.5°	1982.4	1989.0	1884.0	1677.3	1573.9	1598.9	1743.9	1810.6	1819.0
30°	1725.6	1722.3	1613.9	1357.1	1220.4	1288.8	1483.9	1557.2	1565.5
32.5°	1490.5	1480.5	1357.1	1050.4	887.0	988.7	1245.4	1322.1	1335.5
35°	1265.4	1248.8	1115.4	776.9	595.2	746.9	1040.4	1107.1	1112.1
37.5°	1030.4	1022.0	917.0	581.9	415.1	566.9	848.6	897.0	892.0
40°	812.0	812.0	725.3	431.8	288.4	421.8	671.9	715.3	700.2
42.5°	636.9	645.2	571.9	318.4	205.1	313.4	531.9	571.9	555.2
45°	513.5	513.5	450.2	236.7	133.4	233.4	420.1	456.8	453.5
47.5°	435.2	428.5	365.1	173.4	73.4	175.1	353.5	398.5	396.8
50°	388.5	378.5	313.4	136.7	51.7	145.1	310.1	351.8	353.5
52.5°	351.8	336.8	281.8	121.7	45.0	126.7	281.8	315.1	315.1
55°	311.8	303.4	253.4	108.4	40.0	113.4	253.4	283.4	281.8
57.5°	263.4	261.8	226.7	98.4	36.7	100.0	226.7	245.1	238.4
60°	215.1	221.7	196.7	88.4	33.3	90.0	193.4	208.4	205.1
62.5°	180.1	188.4	171.7	78.4	28.3	80.0	163.4	178.4	175.1
65°	150.1	156.7	143.4	66.7	25.0	66.7	135.0	148.4	148.4
67.5°	123.4	128.4	118.4	55.0	21.7	55.0	110.0	121.7	123.4
70°	98.4	101.7	93.4	43.3	18.3	45.0	86.7	98.4	98.4
72.5°	76.7	78.4	73.4	35.0	16.7	35.0	66.7	76.7	76.7
75°	55.0	58.4	55.0	26.7	15.0	26.7	51.7	56.7	58.4
77.5°	31.7	40.0	40.0	21.7	11.7	20.0	36.7	38.3	38.3
80°	21.7	25.0	28.3	15.0	8.3	15.0	23.3	25.0	23.3
82.5°	15.0	16.7	16.7	10.0	6.7	10.0	15.0	16.7	15.0
85°	8.3	11.7	11.7	8.3	5.0	6.7	8.3	10.0	8.3
87.5°	5.0	6.7	8.3	6.7	5.0	5.0	5.0	5.0	3.3
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)