

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: P799659

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDSWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799659  
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 6LBMDSWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

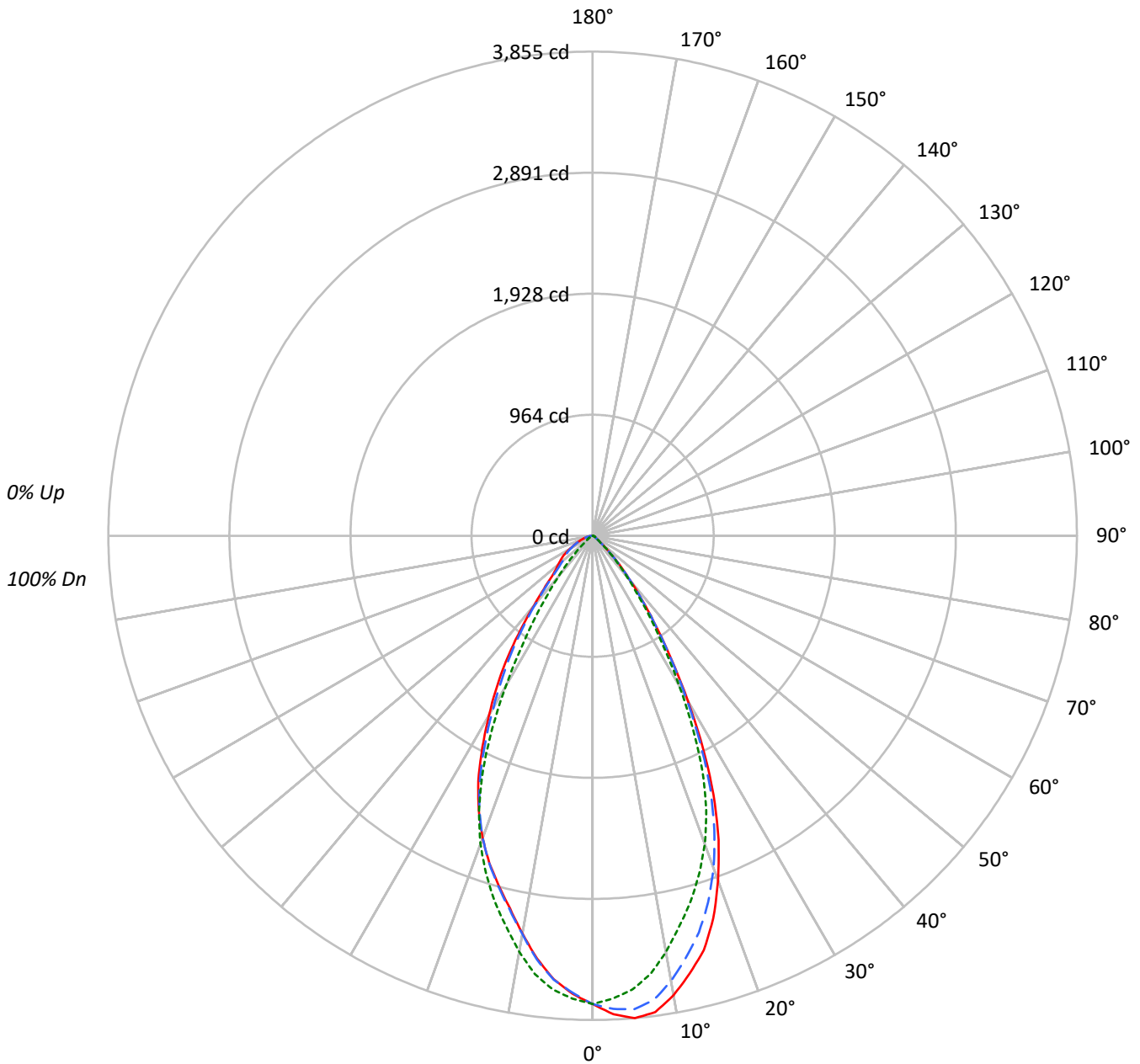
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3210.0 lumens  
Efficiency: N/A  
Efficacy: 68.3 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

TEST NUMBER: P799659

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMSWH

### Luminous Intensity Polar Plot





TEST NUMBER: P799659

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMDSWH

**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	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°	204392	204392	204392
5°	212161	199592	195080
10°	206737	187221	178982
15°	193889	171068	163673
20°	170214	152292	149381
25°	137663	125118	130272
30°	95705	87153	104257
35°	58986	53391	78688
40°	33377	29927	52255
45°	16211	15459	35663
50°	6175	6175	30319
55°	3383	3995	27975
60°	2467	3180	22926
65°	2088	2711	18783
70°	1811	2324	15467
75°	1694	2393	13280
80°	1010	2020	9660
85°	1006	4026	9120



TEST NUMBER: P799659

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMDSWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.3	10.6
10°-20°	857.9	26.7
20°-30°	965.7	30.1
30°-40°	598.0	18.6
40°-50°	238.1	7.4
50°-60°	108.4	3.4
60°-70°	62.3	1.9
70°-80°	29.6	0.9
80°-90°	8.6	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°	2164.9	67.4
0°-40°	2762.9	86.1
0°-60°	3109.4	96.9
0°-90°	3210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3728	3728	3728	3728	3728	
5°	3855	3785	3627	3548	3545	363
15°	3416	3268	3014	2892	2884	945
25°	2276	2215	2068	2120	2154	1023
35°	881	877	798	1111	1176	566
45°	209	209	199	434	460	177
55°	35	34	42	257	293	35
65°	16	14	21	143	145	16
75°	8	8	11	61	63	8
85°	2	2	6	14	14	1
90°	0	0	0	0	0	



TEST NUMBER: P799659

CATALOG NUMBER: LD6C40D010 EU6409027 6LBMDSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4	3728.4
2.5°	3813.6	3778.2	3770.2	3739.6	3688.2	3659.2	3641.5	3628.7	3651.2
5°	3855.4	3816.8	3784.7	3721.9	3627.0	3574.0	3548.2	3527.3	3545.0
7.5°	3824.9	3770.2	3726.8	3639.9	3519.3	3437.2	3401.9	3377.7	3393.8
10°	3713.9	3648.0	3598.1	3495.1	3363.3	3265.1	3221.7	3199.2	3215.3
12.5°	3569.1	3514.5	3438.9	3326.3	3184.7	3081.8	3049.6	3031.9	3038.4
15°	3416.3	3352.0	3268.4	3155.8	3014.2	2911.3	2892.0	2880.7	2883.9
17.5°	3194.4	3131.6	3059.3	2949.9	2819.6	2736.0	2736.0	2727.9	2732.7
20°	2917.7	2883.9	2813.2	2721.5	2610.5	2534.9	2559.0	2551.0	2560.6
22.5°	2618.5	2592.8	2531.7	2456.1	2362.8	2303.3	2356.4	2354.8	2367.6
25°	2275.9	2256.6	2214.8	2150.5	2068.5	2031.5	2119.9	2119.9	2153.7
27.5°	1898.0	1878.7	1849.7	1795.0	1727.5	1716.2	1846.5	1862.6	1899.6
30°	1511.9	1499.1	1483.0	1433.1	1376.8	1397.7	1577.9	1605.2	1647.0
32.5°	1167.7	1159.7	1154.9	1109.8	1060.0	1129.1	1335.0	1370.4	1412.2
35°	881.4	863.7	876.6	842.8	797.8	884.6	1111.4	1142.0	1175.8
37.5°	649.8	636.9	648.2	624.1	583.9	678.8	892.7	912.0	934.5
40°	466.4	455.2	464.8	450.4	418.2	506.7	699.7	720.6	730.2
42.5°	331.3	312.0	321.7	310.4	294.3	381.2	550.1	569.4	572.6
45°	209.1	202.7	209.1	202.7	199.4	283.1	434.3	452.0	460.0
47.5°	127.1	119.0	119.0	115.8	119.0	209.1	358.7	384.4	397.3
50°	72.4	69.2	67.6	65.9	72.4	164.1	310.4	339.4	355.5
52.5°	48.3	46.6	46.6	45.0	53.1	138.3	279.9	305.6	321.7
55°	35.4	33.8	33.8	33.8	41.8	119.0	257.4	278.3	292.7
57.5°	27.3	27.3	27.3	25.7	35.4	101.3	230.0	241.3	252.5
60°	22.5	20.9	20.9	20.9	29.0	86.9	197.8	202.7	209.1
62.5°	17.7	17.7	17.7	17.7	24.1	77.2	170.5	170.5	173.7
65°	16.1	14.5	14.5	14.5	20.9	67.6	143.2	141.5	144.8
67.5°	12.9	12.9	12.9	12.9	17.7	57.9	117.4	115.8	119.0
70°	11.3	11.3	11.3	11.3	14.5	48.3	94.9	93.3	96.5
72.5°	9.7	9.7	9.7	9.7	12.9	40.2	75.6	75.6	77.2
75°	8.0	8.0	8.0	8.0	11.3	30.6	61.1	61.1	62.7
77.5°	6.4	6.4	6.4	6.4	8.0	24.1	46.6	45.0	45.0
80°	3.2	4.8	4.8	4.8	6.4	17.7	33.8	30.6	30.6
82.5°	1.6	3.2	3.2	3.2	6.4	12.9	22.5	20.9	20.9
85°	1.6	1.6	1.6	4.8	6.4	9.7	14.5	14.5	14.5
87.5°	0.0	1.6	3.2	6.4	8.0	8.0	9.7	8.0	8.0
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)