

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: P799654

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799654
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 EU6409027 6LBMDDWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

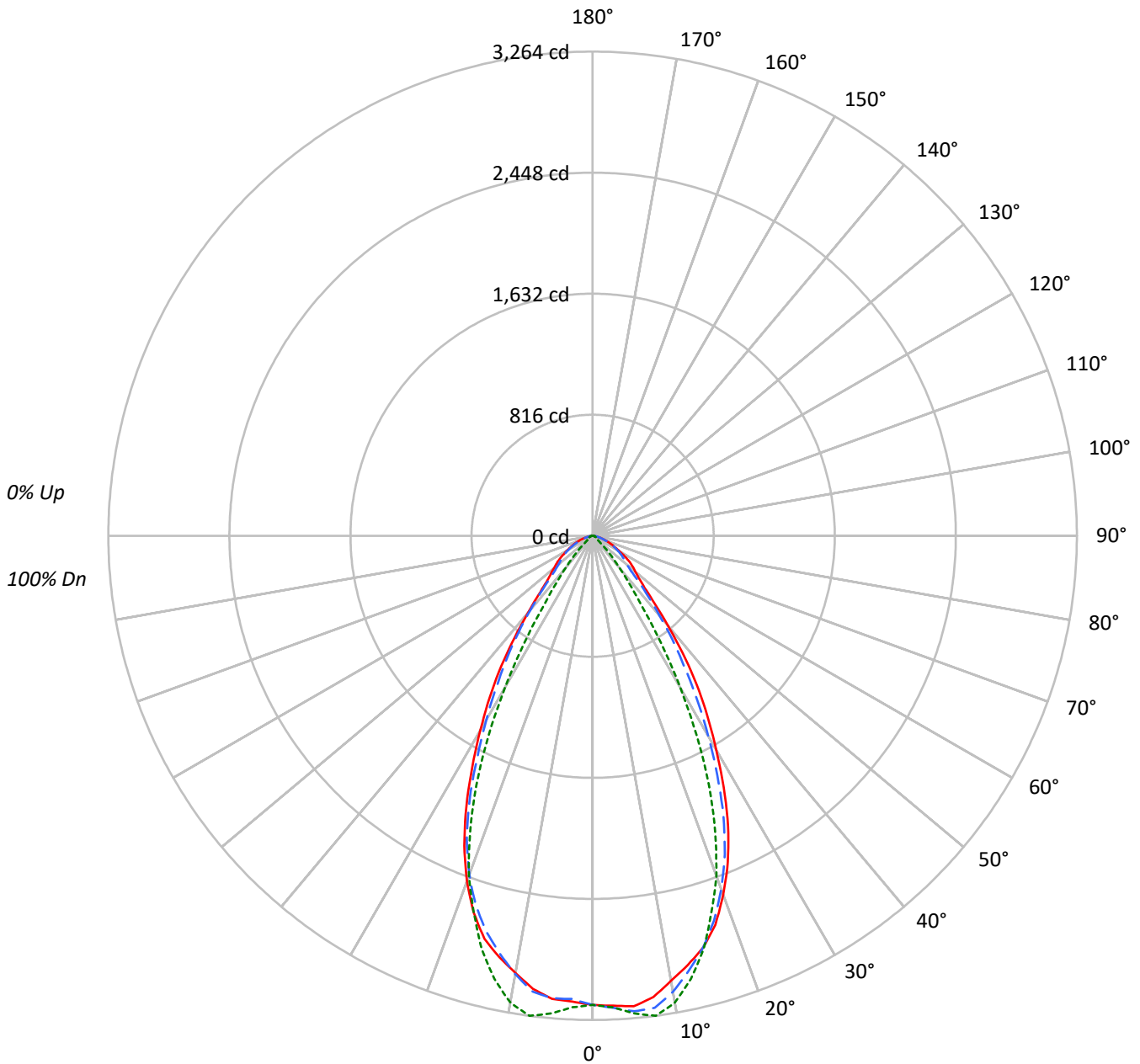
Lumens per Lamp: N/A
Luminaire Lumens: 3220.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									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°	173391	173391	173391
5°	175203	177861	172457
10°	169525	177858	166575
15°	163162	163803	159694
20°	150169	142282	144533
25°	130689	112198	121737
30°	105402	74543	95629
35°	81720	38434	71815
40°	56069	19916	48355
45°	38415	9978	33926
50°	31965	4256	29091
55°	28749	3689	25987
60°	22750	3530	21698
65°	18783	3126	18575
70°	15211	2837	15211
75°	11247	3071	11925
80°	6598	2526	7103
85°	5032	3019	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	9.4
10°-20°	790.2	24.5
20°-30°	902.0	28.0
30°-40°	598.2	18.6
40°-50°	288.5	9.0
50°-60°	177.5	5.5
60°-70°	107.4	3.3
70°-80°	45.2	1.4
80°-90°	10.0	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°	1993.3	61.9
0°-40°	2591.5	80.5
0°-60°	3057.5	95.0
0°-90°	3220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3220.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3163	3163	3163	3163	3163	
5°	3184	3218	3232	3129	3134	299
15°	2875	2875	2886	2764	2814	801
25°	2161	2088	1855	1963	2013	980
35°	1221	1076	574	1004	1073	755
45°	496	434	129	405	438	404
55°	301	244	39	244	272	264
65°	145	138	24	130	143	145
75°	53	53	14	50	56	57
85°	8	11	5	8	8	10
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°	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9	3162.9
2.5°	3170.9	3175.8	3185.4	3187.0	3182.2	3151.6	3125.9	3135.5	3143.6
5°	3183.8	3193.5	3217.6	3240.1	3232.1	3180.6	3129.1	3127.5	3133.9
7.5°	3137.1	3159.7	3209.5	3265.9	3264.2	3175.8	3100.1	3080.8	3080.8
10°	3045.4	3066.4	3121.1	3196.7	3195.1	3084.1	3000.4	2990.7	2992.4
12.5°	2963.4	2973.1	3000.4	3059.9	3059.9	2950.5	2886.2	2895.8	2908.7
15°	2874.9	2881.4	2874.9	2894.2	2886.2	2796.1	2763.9	2794.5	2813.8
17.5°	2749.4	2752.6	2718.9	2693.1	2662.6	2606.2	2614.3	2659.3	2664.2
20°	2574.1	2595.0	2533.9	2467.9	2438.9	2385.8	2430.9	2480.8	2477.5
22.5°	2381.0	2405.1	2326.3	2216.9	2157.4	2136.5	2216.9	2262.0	2260.4
25°	2160.6	2178.3	2088.2	1935.4	1854.9	1851.7	1962.7	2009.4	2012.6
27.5°	1912.9	1919.3	1817.9	1618.4	1518.7	1542.8	1682.8	1747.2	1755.2
30°	1665.1	1661.9	1557.3	1309.6	1177.6	1243.6	1431.8	1502.6	1510.7
32.5°	1438.3	1428.6	1309.6	1013.5	855.9	954.0	1201.8	1275.8	1288.6
35°	1221.1	1205.0	1076.3	749.7	574.3	720.7	1003.9	1068.2	1073.1
37.5°	994.2	986.2	884.8	561.5	400.6	547.0	818.9	865.5	860.7
40°	783.5	783.5	699.8	416.7	278.3	407.0	648.3	690.2	675.7
42.5°	614.6	622.6	551.8	307.3	197.9	302.5	513.2	551.8	535.7
45°	495.5	495.5	434.4	228.4	128.7	225.2	405.4	440.8	437.6
47.5°	419.9	413.5	352.3	167.3	70.8	168.9	341.1	384.5	382.9
50°	374.8	365.2	302.5	131.9	49.9	140.0	299.2	339.5	341.1
52.5°	339.5	325.0	271.9	117.4	43.4	122.3	271.9	304.1	304.1
55°	300.8	292.8	244.5	104.6	38.6	109.4	244.5	273.5	271.9
57.5°	254.2	252.6	218.8	94.9	35.4	96.5	218.8	236.5	230.1
60°	207.5	214.0	189.8	85.3	32.2	86.9	186.6	201.1	197.9
62.5°	173.7	181.8	165.7	75.6	27.3	77.2	157.7	172.1	168.9
65°	144.8	151.2	138.4	64.4	24.1	64.4	130.3	143.2	143.2
67.5°	119.1	123.9	114.2	53.1	20.9	53.1	106.2	117.4	119.1
70°	94.9	98.1	90.1	41.8	17.7	43.4	83.7	94.9	94.9
72.5°	74.0	75.6	70.8	33.8	16.1	33.8	64.4	74.0	74.0
75°	53.1	56.3	53.1	25.7	14.5	25.7	49.9	54.7	56.3
77.5°	30.6	38.6	38.6	20.9	11.3	19.3	35.4	37.0	37.0
80°	20.9	24.1	27.3	14.5	8.0	14.5	22.5	24.1	22.5
82.5°	14.5	16.1	16.1	9.7	6.4	9.7	14.5	16.1	14.5
85°	8.0	11.3	11.3	8.0	4.8	6.4	8.0	9.7	8.0
87.5°	4.8	6.4	8.0	6.4	4.8	4.8	4.8	4.8	3.2
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)