

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: P799700

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799700
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 EU6409050 6LBMDDWGPH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

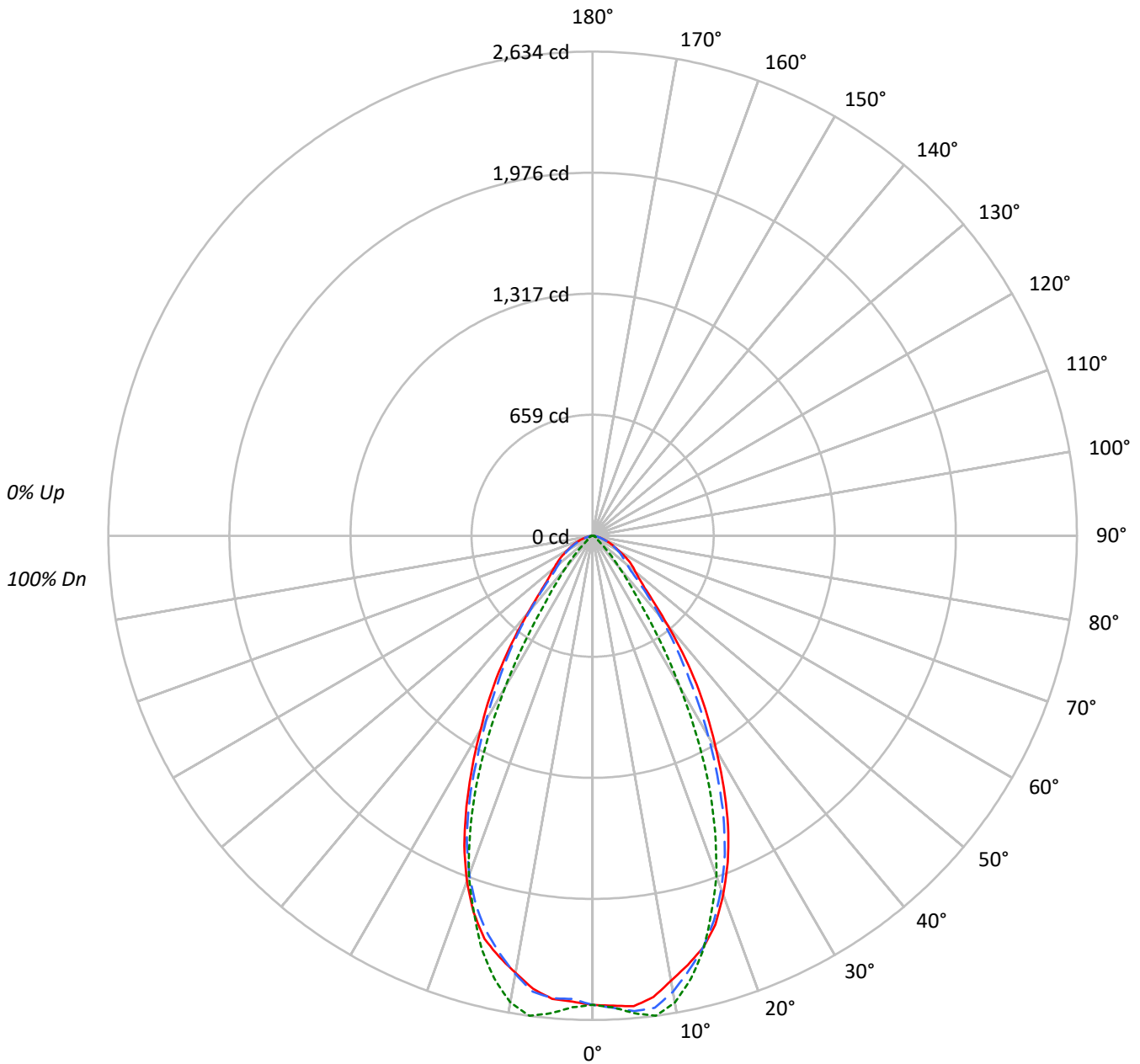
Lumens per Lamp: N/A
Luminaire Lumens: 2598.0 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					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°	139896	139896	139896
5°	141360	143501	139148
10°	136782	143501	134394
15°	131647	132163	128843
20°	121157	114798	116618
25°	105448	90525	98219
30°	85045	60148	77151
35°	65933	31012	57942
40°	45235	16073	39016
45°	30995	8047	27375
50°	25790	3428	23470
55°	23196	2982	20969
60°	18354	2851	17510
65°	15151	2529	14982
70°	12278	2292	12278
75°	9065	2478	9616
80°	5335	2052	5746
85°	4088	2453	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	9.4
10°-20°	637.6	24.5
20°-30°	727.8	28.0
30°-40°	482.6	18.6
40°-50°	232.8	9.0
50°-60°	143.2	5.5
60°-70°	86.6	3.3
70°-80°	36.5	1.4
80°-90°	8.1	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°	1608.3	61.9
0°-40°	2090.9	80.5
0°-60°	2466.9	95.0
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2552	2552	2552	2552	2552	
5°	2569	2596	2608	2525	2529	241
15°	2320	2320	2329	2230	2270	646
25°	1743	1685	1497	1584	1624	790
35°	985	868	463	810	866	609
45°	400	350	104	327	353	326
55°	243	197	31	197	219	213
65°	117	112	20	105	116	117
75°	43	43	12	40	45	46
85°	6	9	4	6	6	8
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°	2551.9	2551.9	2551.9	2551.9	2551.9	2551.9	2551.9	2551.9	2551.9
2.5°	2558.4	2562.3	2570.1	2571.4	2567.5	2542.8	2522.1	2529.9	2536.3
5°	2568.8	2576.6	2596.1	2614.2	2607.7	2566.2	2524.7	2523.4	2528.6
7.5°	2531.2	2549.3	2589.6	2635.0	2633.7	2562.3	2501.3	2485.7	2485.7
10°	2457.2	2474.0	2518.2	2579.2	2577.9	2488.3	2420.8	2413.0	2414.3
12.5°	2391.0	2398.8	2420.8	2468.8	2468.8	2380.6	2328.7	2336.4	2346.8
15°	2319.6	2324.8	2319.6	2335.2	2328.7	2256.0	2230.0	2254.7	2270.2
17.5°	2218.3	2220.9	2193.7	2172.9	2148.2	2102.8	2109.3	2145.6	2149.5
20°	2076.8	2093.7	2044.4	1991.2	1967.8	1925.0	1961.3	2001.6	1999.0
22.5°	1921.1	1940.6	1876.9	1788.7	1740.7	1723.8	1788.7	1825.0	1823.7
25°	1743.3	1757.5	1684.8	1561.5	1496.6	1494.0	1583.6	1621.2	1623.8
27.5°	1543.4	1548.5	1466.8	1305.8	1225.3	1244.8	1357.7	1409.7	1416.1
30°	1343.5	1340.9	1256.5	1056.6	950.2	1003.4	1155.2	1212.4	1218.8
32.5°	1160.4	1152.6	1056.6	817.8	690.6	769.7	969.6	1029.3	1039.7
35°	985.2	972.2	868.4	604.9	463.4	581.5	810.0	861.9	865.8
37.5°	802.2	795.7	713.9	453.0	323.2	441.3	660.7	698.3	694.4
40°	632.1	632.1	564.6	336.2	224.6	328.4	523.1	556.9	545.2
42.5°	495.8	502.3	445.2	247.9	159.7	244.0	414.1	445.2	432.2
45°	399.8	399.8	350.5	184.3	103.8	181.7	327.1	355.7	353.1
47.5°	338.8	333.6	284.3	135.0	57.1	136.3	275.2	310.2	308.9
50°	302.4	294.7	244.0	106.4	40.2	112.9	241.4	273.9	275.2
52.5°	273.9	262.2	219.4	94.8	35.0	98.7	219.4	245.3	245.3
55°	242.7	236.2	197.3	84.4	31.2	88.3	197.3	220.7	219.4
57.5°	205.1	203.8	176.5	76.6	28.6	77.9	176.5	190.8	185.6
60°	167.4	172.6	153.2	68.8	26.0	70.1	150.6	162.3	159.7
62.5°	140.2	146.7	133.7	61.0	22.1	62.3	127.2	138.9	136.3
65°	116.8	122.0	111.6	51.9	19.5	51.9	105.1	115.5	115.5
67.5°	96.1	99.9	92.2	42.8	16.9	42.8	85.7	94.8	96.1
70°	76.6	79.2	72.7	33.7	14.3	35.0	67.5	76.6	76.6
72.5°	59.7	61.0	57.1	27.3	13.0	27.3	51.9	59.7	59.7
75°	42.8	45.4	42.8	20.8	11.7	20.8	40.2	44.1	45.4
77.5°	24.7	31.2	31.2	16.9	9.1	15.6	28.6	29.9	29.9
80°	16.9	19.5	22.1	11.7	6.5	11.7	18.2	19.5	18.2
82.5°	11.7	13.0	13.0	7.8	5.2	7.8	11.7	13.0	11.7
85°	6.5	9.1	9.1	6.5	3.9	5.2	6.5	7.8	6.5
87.5°	3.9	5.2	6.5	5.2	3.9	3.9	3.9	3.9	2.6
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)