

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: P799688

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDDWGP**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799688
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 6LBMDDWGPH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

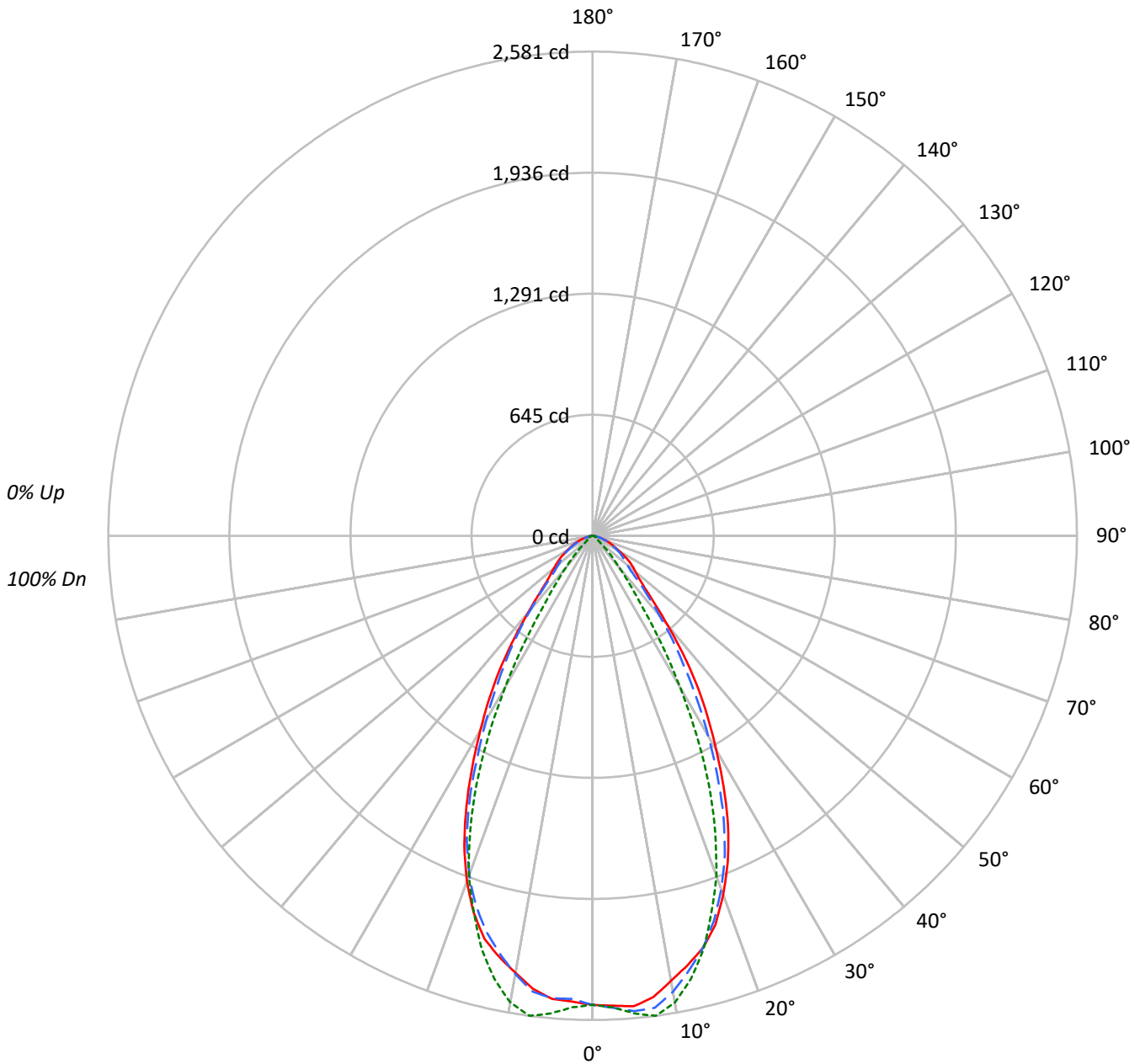
Lumens per Lamp: N/A
Luminaire Lumens: 2546.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	137094	137094	137094
5°	138531	140628	136358
10°	134043	140629	131705
15°	129008	129518	126266
20°	118736	112500	114285
25°	103337	88717	96254
30°	83342	58939	75613
35°	64614	30390	56784
40°	44333	15751	38236
45°	30375	7892	26824
50°	25278	3360	23001
55°	22738	2915	20549
60°	17992	2785	17159
65°	14852	2478	14684
70°	12037	2244	12037
75°	8896	2415	9425
80°	5209	2020	5619
85°	4026	2390	4026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	9.4
10°-20°	624.8	24.5
20°-30°	713.2	28.0
30°-40°	473.0	18.6
40°-50°	228.1	9.0
50°-60°	140.3	5.5
60°-70°	84.9	3.3
70°-80°	35.7	1.4
80°-90°	7.9	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°	1576.1	61.9
0°-40°	2049.0	80.5
0°-60°	2417.5	95.0
0°-90°	2546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2546.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2501	2501	2501	2501	2501	
5°	2517	2544	2556	2474	2478	237
15°	2273	2273	2282	2185	2225	633
25°	1708	1651	1467	1552	1591	775
35°	966	851	454	794	848	597
45°	392	344	102	321	346	320
55°	238	193	30	193	215	209
65°	114	109	19	103	113	115
75°	42	42	11	39	44	45
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°	2500.8	2500.8	2500.8	2500.8	2500.8	2500.8	2500.8	2500.8	2500.8
2.5°	2507.2	2511.0	2518.7	2519.9	2516.1	2491.9	2471.6	2479.2	2485.6
5°	2517.4	2525.0	2544.1	2561.9	2555.5	2514.8	2474.1	2472.9	2477.9
7.5°	2480.5	2498.3	2537.7	2582.3	2581.0	2511.0	2451.2	2436.0	2436.0
10°	2408.0	2424.5	2467.8	2527.6	2526.3	2438.5	2372.4	2364.7	2366.0
12.5°	2343.1	2350.7	2372.4	2419.4	2419.4	2332.9	2282.1	2289.7	2299.9
15°	2273.1	2278.2	2273.1	2288.4	2282.1	2210.8	2185.4	2209.5	2224.8
17.5°	2173.9	2176.5	2149.8	2129.4	2105.2	2060.7	2067.1	2102.7	2106.5
20°	2035.3	2051.8	2003.5	1951.3	1928.4	1886.4	1922.1	1961.5	1959.0
22.5°	1882.6	1901.7	1839.4	1752.9	1705.8	1689.3	1752.9	1788.5	1787.2
25°	1708.4	1722.4	1651.1	1530.3	1466.7	1464.1	1551.9	1588.8	1591.3
27.5°	1512.5	1517.6	1437.4	1279.7	1200.8	1219.9	1330.6	1381.4	1387.8
30°	1316.6	1314.0	1231.3	1035.4	931.1	983.3	1132.1	1188.1	1194.5
32.5°	1137.2	1129.6	1035.4	801.4	676.7	754.3	950.2	1008.7	1018.9
35°	965.5	952.8	851.0	592.8	454.1	569.9	793.8	844.6	848.5
37.5°	786.1	779.8	699.6	443.9	316.7	432.5	647.5	684.4	680.5
40°	619.5	619.5	553.3	329.5	220.1	321.8	512.6	545.7	534.3
42.5°	485.9	492.3	436.3	243.0	156.5	239.1	405.8	436.3	423.6
45°	391.8	391.8	343.5	180.6	101.8	178.1	320.6	348.5	346.0
47.5°	332.0	326.9	278.6	132.3	56.0	133.6	269.7	304.0	302.7
50°	296.4	288.8	239.1	104.3	39.4	110.7	236.6	268.4	269.7
52.5°	268.4	257.0	215.0	92.9	34.3	96.7	215.0	240.4	240.4
55°	237.9	231.5	193.4	82.7	30.5	86.5	193.4	216.2	215.0
57.5°	201.0	199.7	173.0	75.1	28.0	76.3	173.0	187.0	181.9
60°	164.1	169.2	150.1	67.4	25.4	68.7	147.6	159.0	156.5
62.5°	137.4	143.7	131.0	59.8	21.6	61.1	124.7	136.1	133.6
65°	114.5	119.6	109.4	50.9	19.1	50.9	103.0	113.2	113.2
67.5°	94.1	97.9	90.3	42.0	16.5	42.0	84.0	92.9	94.1
70°	75.1	77.6	71.2	33.1	14.0	34.3	66.1	75.1	75.1
72.5°	58.5	59.8	56.0	26.7	12.7	26.7	50.9	58.5	58.5
75°	42.0	44.5	42.0	20.4	11.4	20.4	39.4	43.2	44.5
77.5°	24.2	30.5	30.5	16.5	8.9	15.3	28.0	29.3	29.3
80°	16.5	19.1	21.6	11.4	6.4	11.4	17.8	19.1	17.8
82.5°	11.4	12.7	12.7	7.6	5.1	7.6	11.4	12.7	11.4
85°	6.4	8.9	8.9	6.4	3.8	5.1	6.4	7.6	6.4
87.5°	3.8	5.1	6.4	5.1	3.8	3.8	3.8	3.8	2.5
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)