

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: P799656

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDDWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799656
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 6LBMDDWWH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

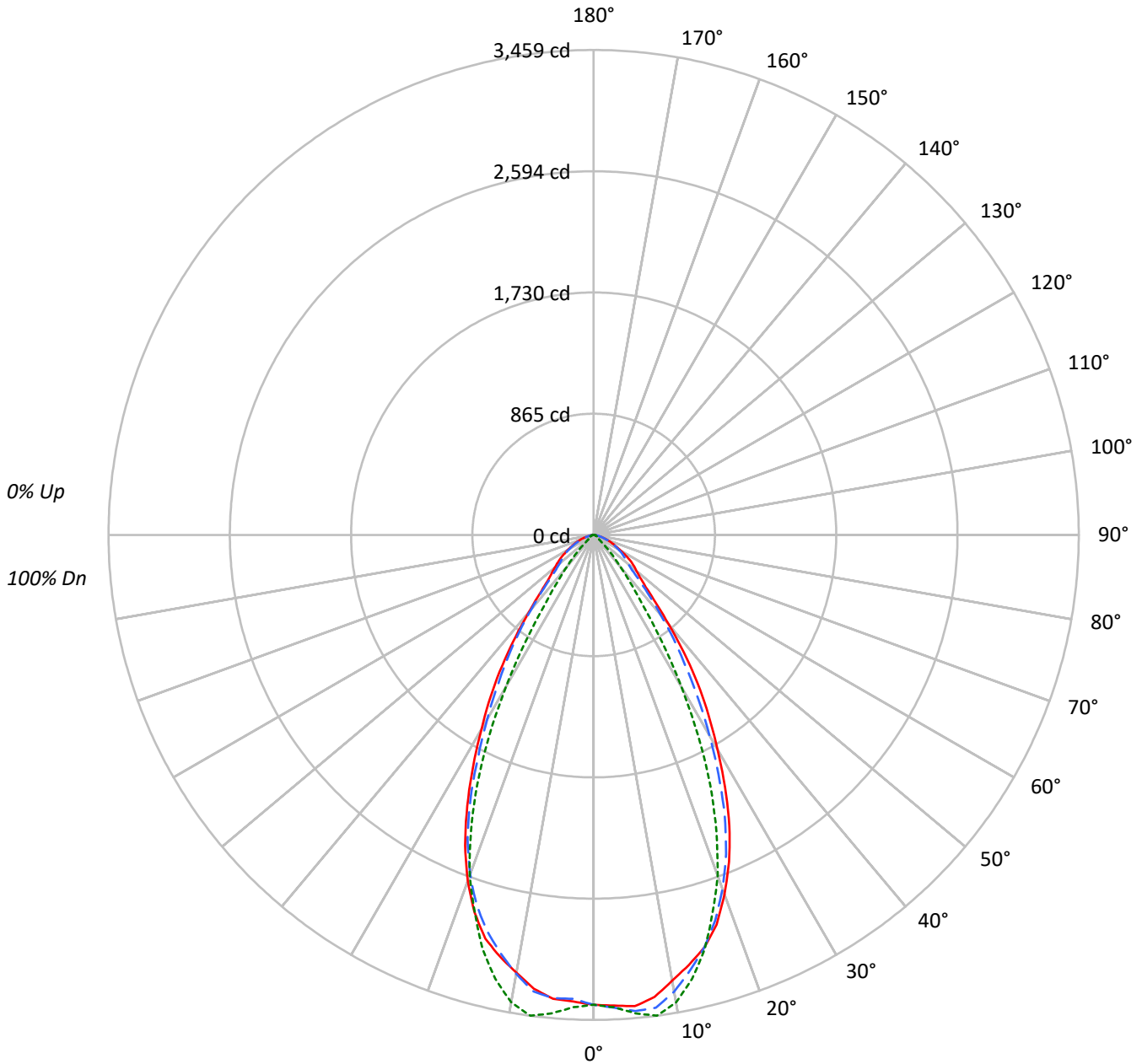
Lumens per Lamp: N/A
Luminaire Lumens: 3412.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	183730	183730	183730
5°	185648	188465	182742
10°	179634	188462	176505
15°	172890	173571	169218
20°	159124	150770	153156
25°	138480	118888	128995
30°	111688	78993	101326
35°	86592	40729	76092
40°	59411	21104	51239
45°	40710	10575	35949
50°	33875	4503	30822
55°	30470	3909	27535
60°	24110	3739	22992
65°	19898	3321	19678
70°	16125	3013	16125
75°	11925	3241	12645
80°	7008	2683	7545
85°	5346	3208	5346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	9.4
10°-20°	837.3	24.5
20°-30°	955.8	28.0
30°-40°	633.8	18.6
40°-50°	305.7	9.0
50°-60°	188.1	5.5
60°-70°	113.8	3.3
70°-80°	47.9	1.4
80°-90°	10.5	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°	2112.1	61.9
0°-40°	2746.0	80.5
0°-60°	3239.8	95.0
0°-90°	3412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3352	3352	3352	3352	3352	
5°	3374	3409	3425	3316	3321	317
15°	3046	3046	3058	2929	2982	849
25°	2289	2213	1966	2080	2133	1038
35°	1294	1140	609	1064	1137	800
45°	525	460	136	430	464	428
55°	319	259	41	259	288	280
65°	153	147	26	138	152	154
75°	56	56	15	53	60	60
85°	8	12	5	8	8	11
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°	3351.5	3351.5	3351.5	3351.5	3351.5	3351.5	3351.5	3351.5	3351.5
2.5°	3360.0	3365.1	3375.4	3377.1	3371.9	3339.6	3312.3	3322.5	3331.0
5°	3373.6	3383.9	3409.4	3433.3	3424.8	3370.2	3315.7	3314.0	3320.8
7.5°	3324.2	3348.1	3400.9	3460.6	3458.9	3365.1	3285.0	3264.5	3264.5
10°	3227.0	3249.2	3307.2	3387.3	3385.6	3268.0	3179.3	3169.1	3170.8
12.5°	3140.1	3150.3	3179.3	3242.4	3242.4	3126.5	3058.3	3068.5	3082.1
15°	3046.3	3053.2	3046.3	3066.8	3058.3	2962.8	2928.7	2961.1	2981.6
17.5°	2913.4	2916.8	2881.0	2853.7	2821.3	2761.7	2770.2	2817.9	2823.0
20°	2727.6	2749.7	2684.9	2615.0	2584.4	2528.1	2575.8	2628.7	2625.3
22.5°	2523.0	2548.6	2465.0	2349.1	2286.0	2263.9	2349.1	2396.8	2395.1
25°	2289.4	2308.2	2212.7	2050.8	1965.5	1962.1	2079.8	2129.2	2132.6
27.5°	2026.9	2033.7	1926.3	1715.0	1609.3	1634.8	1783.1	1851.3	1859.9
30°	1764.4	1761.0	1650.2	1387.6	1247.9	1317.8	1517.2	1592.2	1600.7
32.5°	1524.0	1513.8	1387.6	1074.0	906.9	1010.9	1273.4	1351.8	1365.5
35°	1293.9	1276.8	1140.5	794.4	608.6	763.7	1063.7	1131.9	1137.0
37.5°	1053.5	1045.0	937.6	594.9	424.5	579.6	867.7	917.1	912.0
40°	830.2	830.2	741.6	441.5	294.9	431.3	687.0	731.3	716.0
42.5°	651.2	659.7	584.7	325.6	209.7	320.5	543.8	584.7	567.7
45°	525.1	525.1	460.3	242.1	136.4	238.7	429.6	467.1	463.7
47.5°	444.9	438.1	373.3	177.3	75.0	179.0	361.4	407.4	405.7
50°	397.2	387.0	320.5	139.8	52.8	148.3	317.1	359.7	361.4
52.5°	359.7	344.4	288.1	124.4	46.0	129.6	288.1	322.2	322.2
55°	318.8	310.3	259.1	110.8	40.9	115.9	259.1	289.8	288.1
57.5°	269.3	267.6	231.8	100.6	37.5	102.3	231.8	250.6	243.8
60°	219.9	226.7	201.2	90.4	34.1	92.1	197.7	213.1	209.7
62.5°	184.1	192.6	175.6	80.1	29.0	81.8	167.1	182.4	179.0
65°	153.4	160.2	146.6	68.2	25.6	68.2	138.1	151.7	151.7
67.5°	126.1	131.3	121.0	56.3	22.2	56.3	112.5	124.4	126.1
70°	100.6	104.0	95.5	44.3	18.8	46.0	88.6	100.6	100.6
72.5°	78.4	80.1	75.0	35.8	17.0	35.8	68.2	78.4	78.4
75°	56.3	59.7	56.3	27.3	15.3	27.3	52.8	58.0	59.7
77.5°	32.4	40.9	40.9	22.2	11.9	20.5	37.5	39.2	39.2
80°	22.2	25.6	29.0	15.3	8.5	15.3	23.9	25.6	23.9
82.5°	15.3	17.0	17.0	10.2	6.8	10.2	15.3	17.0	15.3
85°	8.5	11.9	11.9	8.5	5.1	6.8	8.5	10.2	8.5
87.5°	5.1	6.8	8.5	6.8	5.1	5.1	5.1	5.1	3.4
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)