

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: P799680

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDDWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799680  
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 EU6409035 6LBMDDWWH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

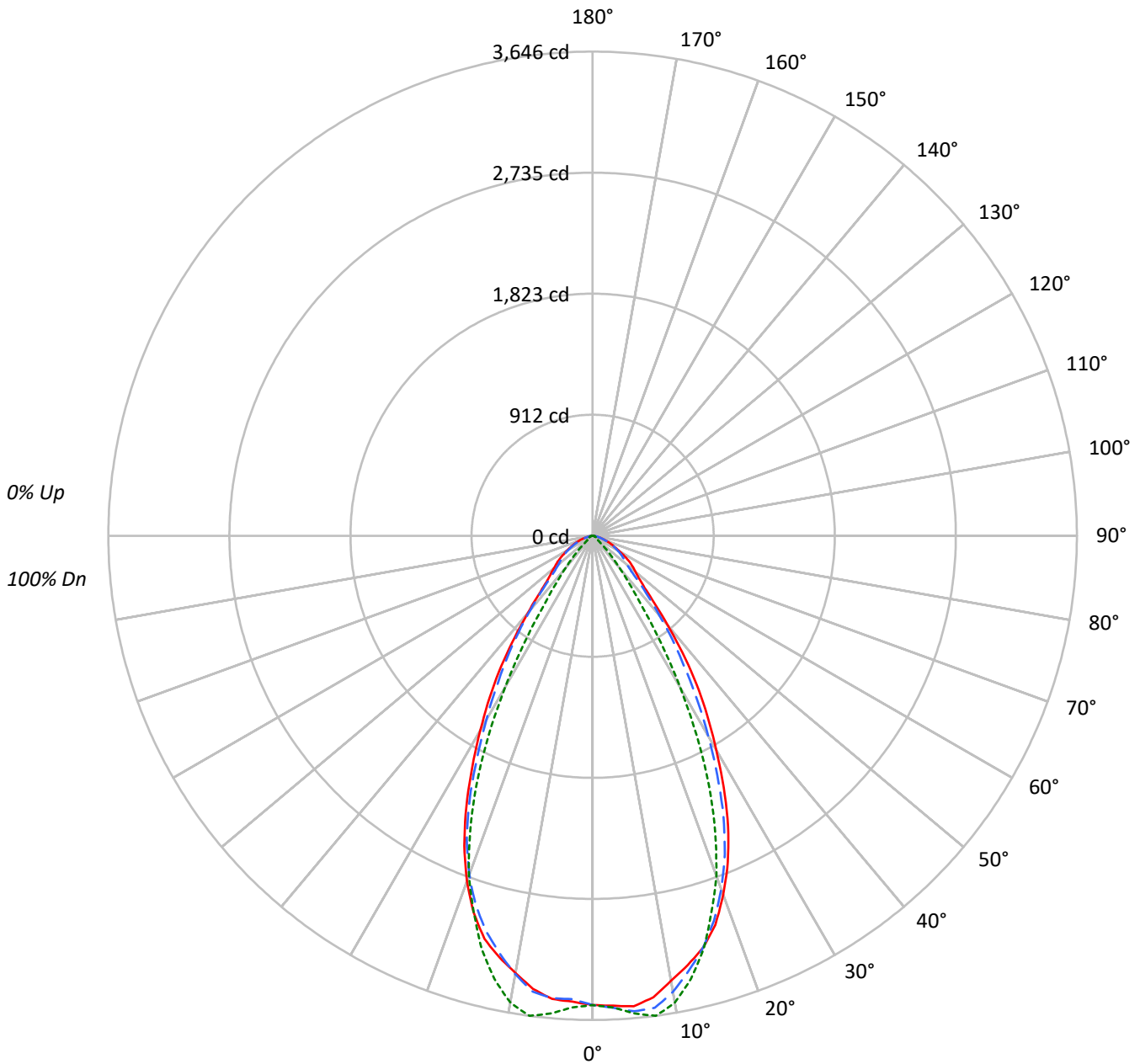
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3597.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 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<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

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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°	193691	193691	193691
5°	195718	198684	192653
10°	189375	198677	186074
15°	182266	182981	178389
20°	167746	158943	161457
25°	145992	125336	135988
30°	117746	83272	106820
35°	91283	42938	80221
40°	62632	22249	54015
45°	42911	11148	37895
50°	35709	4750	32494
55°	32123	4119	29026
60°	25415	3936	24231
65°	20975	3502	20742
70°	16990	3174	16990
75°	12560	3431	13323
80°	7387	2841	7956
85°	5661	3397	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.3	9.4
10°-20°	882.7	24.5
20°-30°	1007.6	28.0
30°-40°	668.2	18.6
40°-50°	322.3	9.0
50°-60°	198.3	5.5
60°-70°	120.0	3.3
70°-80°	50.5	1.4
80°-90°	11.2	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°	2226.7	61.9
0°-40°	2894.9	80.5
0°-60°	3415.4	95.0
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3533	3533	3533	3533	3533	
5°	3557	3594	3610	3496	3501	334
15°	3212	3212	3224	3088	3143	895
25°	2414	2333	2072	2192	2248	1094
35°	1364	1202	642	1121	1199	844
45°	554	485	144	453	489	451
55°	336	273	43	273	304	295
65°	162	155	27	146	160	162
75°	59	59	16	56	63	63
85°	9	13	5	9	9	12
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°	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2
2.5°	3542.2	3547.6	3558.4	3560.2	3554.8	3520.6	3491.9	3502.7	3511.6
5°	3556.6	3567.3	3594.3	3619.5	3610.5	3553.0	3495.5	3493.7	3500.9
7.5°	3504.4	3529.6	3585.3	3648.2	3646.4	3547.6	3463.1	3441.5	3441.5
10°	3402.0	3425.4	3486.5	3570.9	3569.1	3445.1	3351.7	3340.9	3342.7
12.5°	3310.4	3321.1	3351.7	3418.2	3418.2	3296.0	3224.1	3234.9	3249.3
15°	3211.5	3218.7	3211.5	3233.1	3224.1	3123.5	3087.5	3121.7	3143.2
17.5°	3071.3	3074.9	3037.2	3008.4	2974.3	2911.4	2920.4	2970.7	2976.1
20°	2875.4	2898.8	2830.5	2756.8	2724.5	2665.2	2715.5	2771.2	2767.6
22.5°	2659.8	2686.7	2598.7	2476.5	2410.0	2386.6	2476.5	2526.8	2525.0
25°	2413.6	2433.3	2332.7	2162.0	2072.1	2068.5	2192.5	2244.6	2248.2
27.5°	2136.8	2144.0	2030.8	1807.9	1696.5	1723.5	1879.8	1951.7	1960.7
30°	1860.1	1856.5	1739.6	1462.9	1315.5	1389.2	1599.5	1678.5	1687.5
32.5°	1606.7	1595.9	1462.9	1132.2	956.1	1065.7	1342.5	1425.1	1439.5
35°	1364.0	1346.1	1202.3	837.5	641.6	805.1	1121.4	1193.3	1198.7
37.5°	1110.6	1101.7	988.4	627.2	447.5	611.0	914.8	966.9	961.5
40°	875.2	875.2	781.8	465.5	310.9	454.7	724.3	771.0	754.8
42.5°	686.5	695.5	616.4	343.3	221.0	337.9	573.3	616.4	598.5
45°	553.5	553.5	485.2	255.2	143.8	251.6	452.9	492.4	488.8
47.5°	469.1	461.9	393.6	186.9	79.1	188.7	381.0	429.5	427.7
50°	418.7	408.0	337.9	147.4	55.7	156.4	334.3	379.2	381.0
52.5°	379.2	363.0	303.7	131.2	48.5	136.6	303.7	339.7	339.7
55°	336.1	327.1	273.2	116.8	43.1	122.2	273.2	305.5	303.7
57.5°	284.0	282.2	244.4	106.0	39.5	107.8	244.4	264.2	257.0
60°	231.8	239.0	212.1	95.2	35.9	97.0	208.5	224.6	221.0
62.5°	194.1	203.1	185.1	84.5	30.6	86.3	176.1	192.3	188.7
65°	161.7	168.9	154.6	71.9	27.0	71.9	145.6	159.9	159.9
67.5°	133.0	138.4	127.6	59.3	23.4	59.3	118.6	131.2	133.0
70°	106.0	109.6	100.6	46.7	19.8	48.5	93.5	106.0	106.0
72.5°	82.7	84.5	79.1	37.7	18.0	37.7	71.9	82.7	82.7
75°	59.3	62.9	59.3	28.8	16.2	28.8	55.7	61.1	62.9
77.5°	34.1	43.1	43.1	23.4	12.6	21.6	39.5	41.3	41.3
80°	23.4	27.0	30.6	16.2	9.0	16.2	25.2	27.0	25.2
82.5°	16.2	18.0	18.0	10.8	7.2	10.8	16.2	18.0	16.2
85°	9.0	12.6	12.6	9.0	5.4	7.2	9.0	10.8	9.0
87.5°	5.4	7.2	9.0	7.2	5.4	5.4	5.4	5.4	3.6
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)