

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: P799679

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDDWMW**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799679  
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 6LBMDDWMW  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

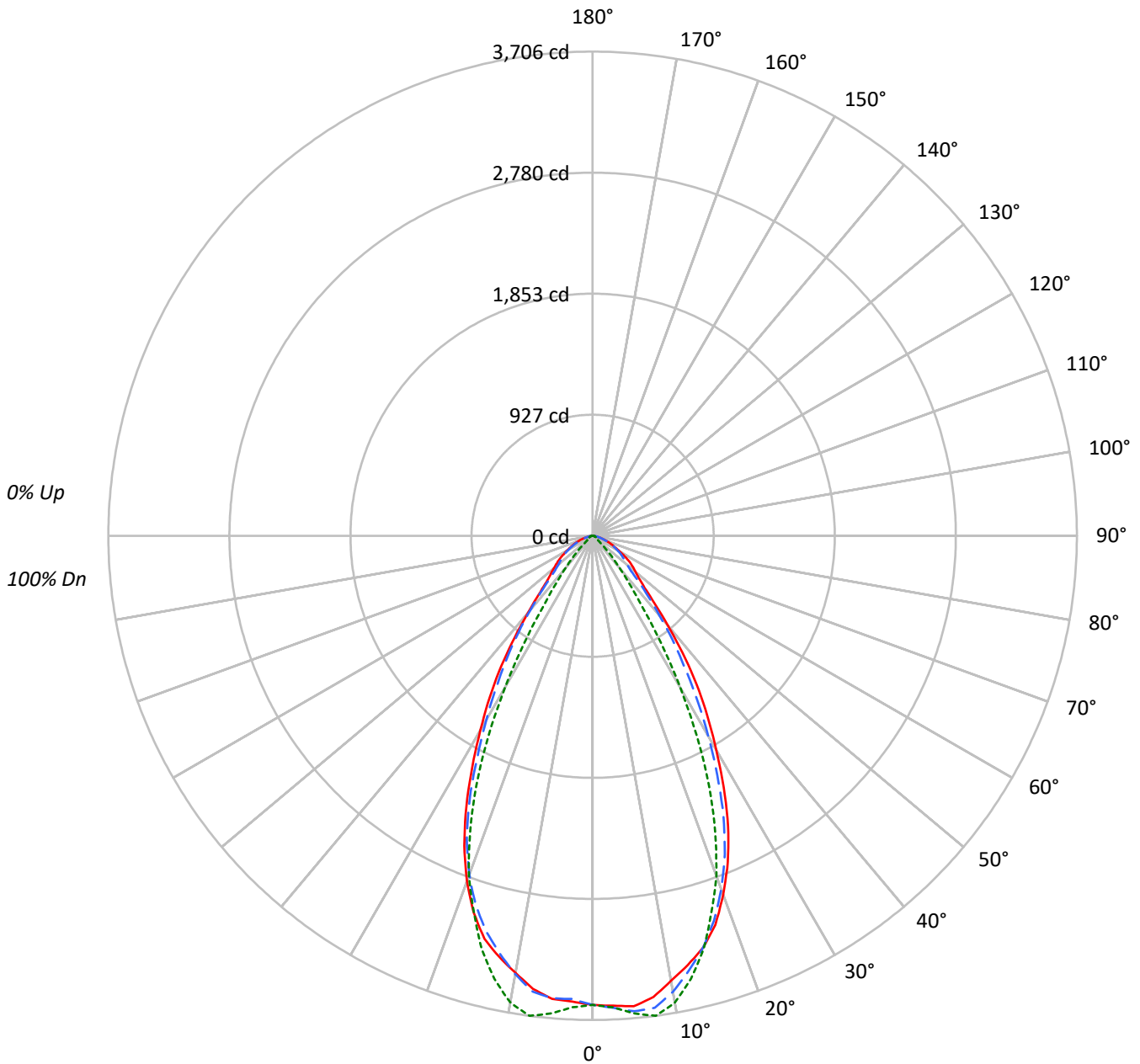
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3656.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 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

TEST NUMBER: P799679

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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°	196870	196870	196870
5°	198926	201942	195812
10°	192481	201939	189125
15°	185256	185983	181318
20°	170500	161551	164106
25°	148388	127392	138220
30°	119677	84640	108574
35°	92782	43641	81539
40°	63662	22614	54903
45°	43617	11327	38516
50°	36297	4827	33022
55°	32649	4186	29504
60°	25831	4002	24636
65°	21325	3554	21092
70°	17279	3222	17279
75°	12772	3474	13535
80°	7482	2873	8082
85°	5724	3459	5724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.8	9.4
10°-20°	897.2	24.5
20°-30°	1024.1	28.0
30°-40°	679.2	18.6
40°-50°	327.6	9.0
50°-60°	201.5	5.5
60°-70°	121.9	3.3
70°-80°	51.3	1.4
80°-90°	11.3	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°	2263.2	61.9
0°-40°	2942.4	80.5
0°-60°	3471.4	95.0
0°-90°	3656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3591	3591	3591	3591	3591	
5°	3615	3653	3670	3553	3558	340
15°	3264	3264	3277	3138	3195	910
25°	2453	2371	2106	2228	2285	1112
35°	1386	1222	652	1140	1218	858
45°	563	493	146	460	497	459
55°	342	278	44	278	309	300
65°	164	157	27	148	163	165
75°	60	60	16	57	64	64
85°	9	13	6	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°	3591.2	3591.2	3591.2	3591.2	3591.2	3591.2	3591.2	3591.2	3591.2
2.5°	3600.3	3605.8	3616.7	3618.6	3613.1	3578.4	3549.1	3560.1	3569.2
5°	3614.9	3625.9	3653.3	3678.8	3669.7	3611.2	3552.8	3551.0	3558.3
7.5°	3561.9	3587.5	3644.1	3708.1	3706.2	3605.8	3519.9	3498.0	3498.0
10°	3457.8	3481.6	3543.7	3629.5	3627.7	3501.7	3406.7	3395.7	3397.5
12.5°	3364.7	3375.6	3406.7	3474.3	3474.3	3350.0	3277.0	3287.9	3302.5
15°	3264.2	3271.5	3264.2	3286.1	3277.0	3174.7	3138.2	3172.9	3194.8
17.5°	3121.7	3125.4	3087.0	3057.8	3023.1	2959.1	2968.3	3019.4	3024.9
20°	2922.6	2946.4	2876.9	2802.1	2769.2	2708.9	2760.0	2816.7	2813.0
22.5°	2703.4	2730.8	2641.3	2517.1	2449.5	2425.8	2517.1	2568.2	2566.4
25°	2453.2	2473.3	2371.0	2197.4	2106.1	2102.5	2228.5	2281.5	2285.1
27.5°	2171.9	2179.2	2064.1	1837.6	1724.3	1751.7	1910.7	1983.7	1992.9
30°	1890.6	1886.9	1768.2	1486.9	1337.1	1412.0	1625.7	1706.1	1715.2
32.5°	1633.0	1622.0	1486.9	1150.8	971.8	1083.2	1364.5	1448.5	1463.1
35°	1386.4	1368.1	1222.0	851.2	652.1	818.3	1139.8	1212.9	1218.4
37.5°	1128.9	1119.7	1004.6	637.5	454.8	621.1	929.8	982.7	977.2
40°	889.6	889.6	794.6	473.1	316.0	462.1	736.1	783.6	767.2
42.5°	697.8	706.9	626.5	348.9	224.7	343.4	582.7	626.5	608.3
45°	562.6	562.6	493.2	259.4	146.1	255.7	460.3	500.5	496.8
47.5°	476.8	469.4	400.0	190.0	80.4	191.8	387.2	436.6	434.7
50°	425.6	414.6	343.4	149.8	56.6	158.9	339.8	385.4	387.2
52.5°	385.4	369.0	308.7	133.3	49.3	138.8	308.7	345.2	345.2
55°	341.6	332.4	277.6	118.7	43.8	124.2	277.6	310.5	308.7
57.5°	288.6	286.8	248.4	107.8	40.2	109.6	248.4	268.5	261.2
60°	235.6	242.9	215.5	96.8	36.5	98.6	211.9	228.3	224.7
62.5°	197.3	206.4	188.1	85.9	31.1	87.7	179.0	195.4	191.8
65°	164.4	171.7	157.1	73.1	27.4	73.1	148.0	162.6	162.6
67.5°	135.2	140.7	129.7	60.3	23.7	60.3	120.6	133.3	135.2
70°	107.8	111.4	102.3	47.5	20.1	49.3	95.0	107.8	107.8
72.5°	84.0	85.9	80.4	38.4	18.3	38.4	73.1	84.0	84.0
75°	60.3	63.9	60.3	29.2	16.4	29.2	56.6	62.1	63.9
77.5°	34.7	43.8	43.8	23.7	12.8	21.9	40.2	42.0	42.0
80°	23.7	27.4	31.1	16.4	9.1	16.4	25.6	27.4	25.6
82.5°	16.4	18.3	18.3	11.0	7.3	11.0	16.4	18.3	16.4
85°	9.1	12.8	12.8	9.1	5.5	7.3	9.1	11.0	9.1
87.5°	5.5	7.3	9.1	7.3	5.5	5.5	5.5	5.5	3.7
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)