

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: P799669

Luminaire Tested: **LD6C40D010 EU6409030 6LBMDDWWMH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799669  
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 EU6409030 6LBMDDWWMH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

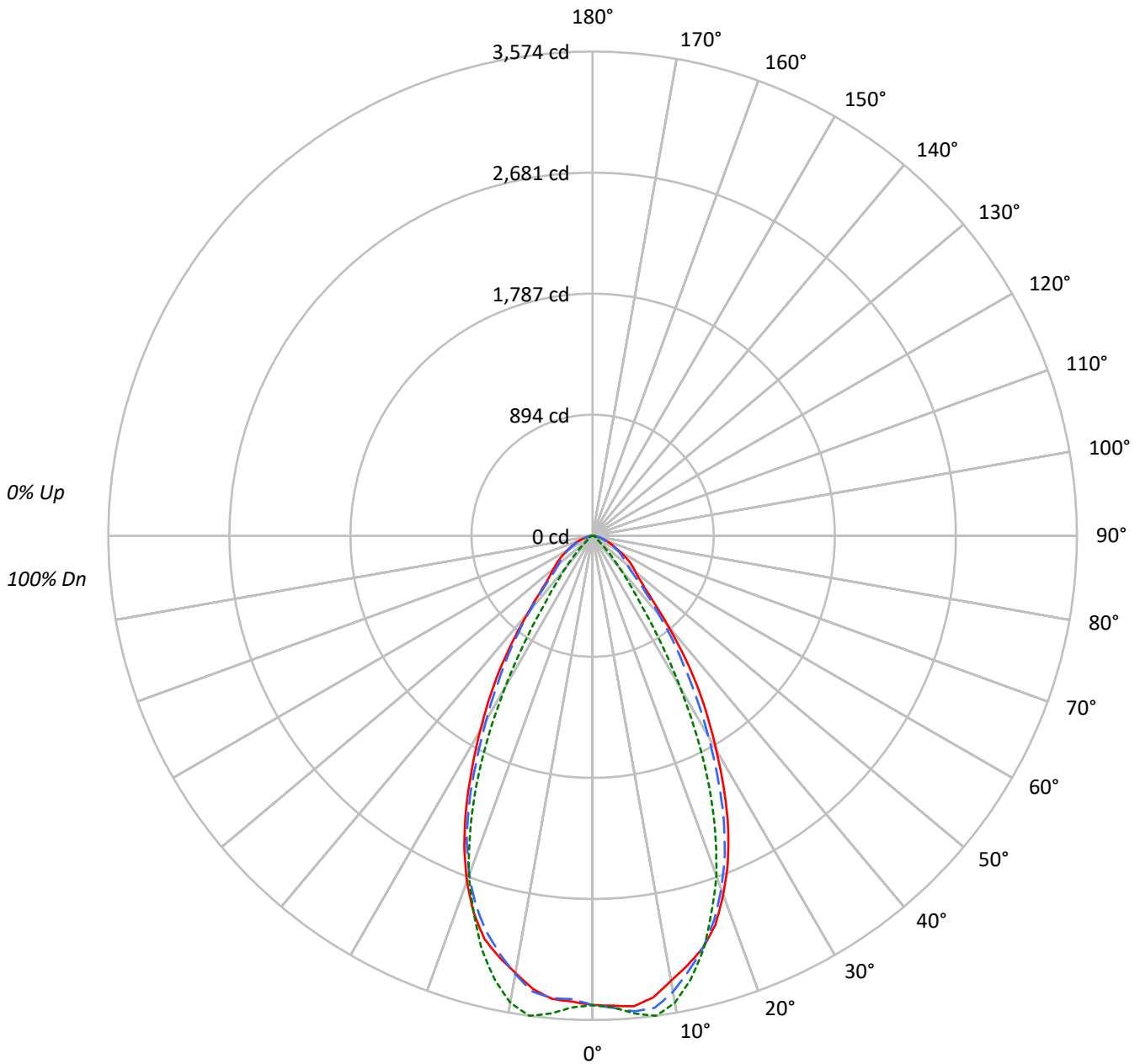
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3526.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 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°	189870	189870	189870
5°	191855	194761	188850
10°	185640	194758	182400
15°	178667	179371	174870
20°	164438	155804	158272
25°	143107	122862	133308
30°	115416	81626	104712
35°	89483	42088	78635
40°	61394	21812	52949
45°	42066	10924	37151
50°	35010	4657	31854
55°	31483	4043	28453
60°	24921	3859	23759
65°	20573	3424	20339
70°	16653	3109	16653
75°	12306	3368	13069
80°	7229	2778	7798
85°	5535	3334	5535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.7	9.4
10°-20°	865.3	24.5
20°-30°	987.7	28.0
30°-40°	655.0	18.6
40°-50°	315.9	9.0
50°-60°	194.3	5.5
60°-70°	117.6	3.3
70°-80°	49.5	1.4
80°-90°	10.9	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°	2182.7	61.9
0°-40°	2837.7	80.5
0°-60°	3348.0	95.0
0°-90°	3526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3526.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3464	3464	3464	3464	3464	
5°	3486	3523	3539	3426	3432	328
15°	3148	3148	3160	3027	3081	877
25°	2366	2287	2031	2149	2204	1073
35°	1337	1179	629	1099	1175	827
45°	543	476	141	444	479	443
55°	329	268	42	268	298	290
65°	159	152	26	143	157	159
75°	58	58	16	55	62	62
85°	9	12	5	9	9	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°	3463.5	3463.5	3463.5	3463.5	3463.5	3463.5	3463.5	3463.5	3463.5
2.5°	3472.3	3477.6	3488.1	3489.9	3484.6	3451.1	3422.9	3433.5	3442.3
5°	3486.4	3496.9	3523.4	3548.0	3539.2	3482.8	3426.5	3424.7	3431.8
7.5°	3435.3	3459.9	3514.6	3576.2	3574.4	3477.6	3394.8	3373.6	3373.6
10°	3334.9	3357.8	3417.7	3500.5	3498.7	3377.1	3285.5	3275.0	3276.7
12.5°	3245.0	3255.6	3285.5	3350.7	3350.7	3230.9	3160.5	3171.0	3185.1
15°	3148.1	3155.2	3148.1	3169.3	3160.5	3061.8	3026.6	3060.0	3081.2
17.5°	3010.7	3014.2	2977.2	2949.1	2915.6	2853.9	2862.7	2912.1	2917.3
20°	2818.7	2841.6	2774.6	2702.4	2670.7	2612.6	2661.9	2716.5	2713.0
22.5°	2607.3	2633.7	2547.4	2427.6	2362.4	2339.5	2427.6	2476.9	2475.2
25°	2365.9	2385.3	2286.7	2119.3	2031.2	2027.7	2149.2	2200.3	2203.9
27.5°	2094.6	2101.7	1990.7	1772.2	1663.0	1689.5	1842.7	1913.2	1922.0
30°	1823.3	1819.8	1705.3	1434.0	1289.5	1361.8	1567.9	1645.4	1654.2
32.5°	1574.9	1564.4	1434.0	1109.9	937.2	1044.7	1316.0	1397.0	1411.1
35°	1337.1	1319.5	1178.6	820.9	628.9	789.2	1099.3	1169.8	1175.0
37.5°	1088.7	1079.9	968.9	614.8	438.7	599.0	896.7	947.8	942.5
40°	857.9	857.9	766.3	456.3	304.8	445.7	710.0	755.8	739.9
42.5°	673.0	681.8	604.3	336.5	216.7	331.2	562.0	604.3	586.6
45°	542.6	542.6	475.7	250.2	140.9	246.6	443.9	482.7	479.2
47.5°	459.8	452.8	385.8	183.2	77.5	185.0	373.5	421.0	419.3
50°	410.5	399.9	331.2	144.5	54.6	153.3	327.7	371.7	373.5
52.5°	371.7	355.9	297.7	128.6	47.6	133.9	297.7	333.0	333.0
55°	329.4	320.6	267.8	114.5	42.3	119.8	267.8	299.5	297.7
57.5°	278.3	276.6	239.6	103.9	38.8	105.7	239.6	259.0	251.9
60°	227.3	234.3	207.9	93.4	35.2	95.1	204.4	220.2	216.7
62.5°	190.3	199.1	181.5	82.8	29.9	84.6	172.6	188.5	185.0
65°	158.6	165.6	151.5	70.5	26.4	70.5	142.7	156.8	156.8
67.5°	130.4	135.6	125.1	58.1	22.9	58.1	116.3	128.6	130.4
70°	103.9	107.5	98.7	45.8	19.4	47.6	91.6	103.9	103.9
72.5°	81.0	82.8	77.5	37.0	17.6	37.0	70.5	81.0	81.0
75°	58.1	61.7	58.1	28.2	15.9	28.2	54.6	59.9	61.7
77.5°	33.5	42.3	42.3	22.9	12.3	21.1	38.8	40.5	40.5
80°	22.9	26.4	29.9	15.9	8.8	15.9	24.7	26.4	24.7
82.5°	15.9	17.6	17.6	10.6	7.0	10.6	15.9	17.6	15.9
85°	8.8	12.3	12.3	8.8	5.3	7.0	8.8	10.6	8.8
87.5°	5.3	7.0	8.8	7.0	5.3	5.3	5.3	5.3	3.5
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)