

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: P799702

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799702  
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 EU6409050 6LBMDDWLI  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

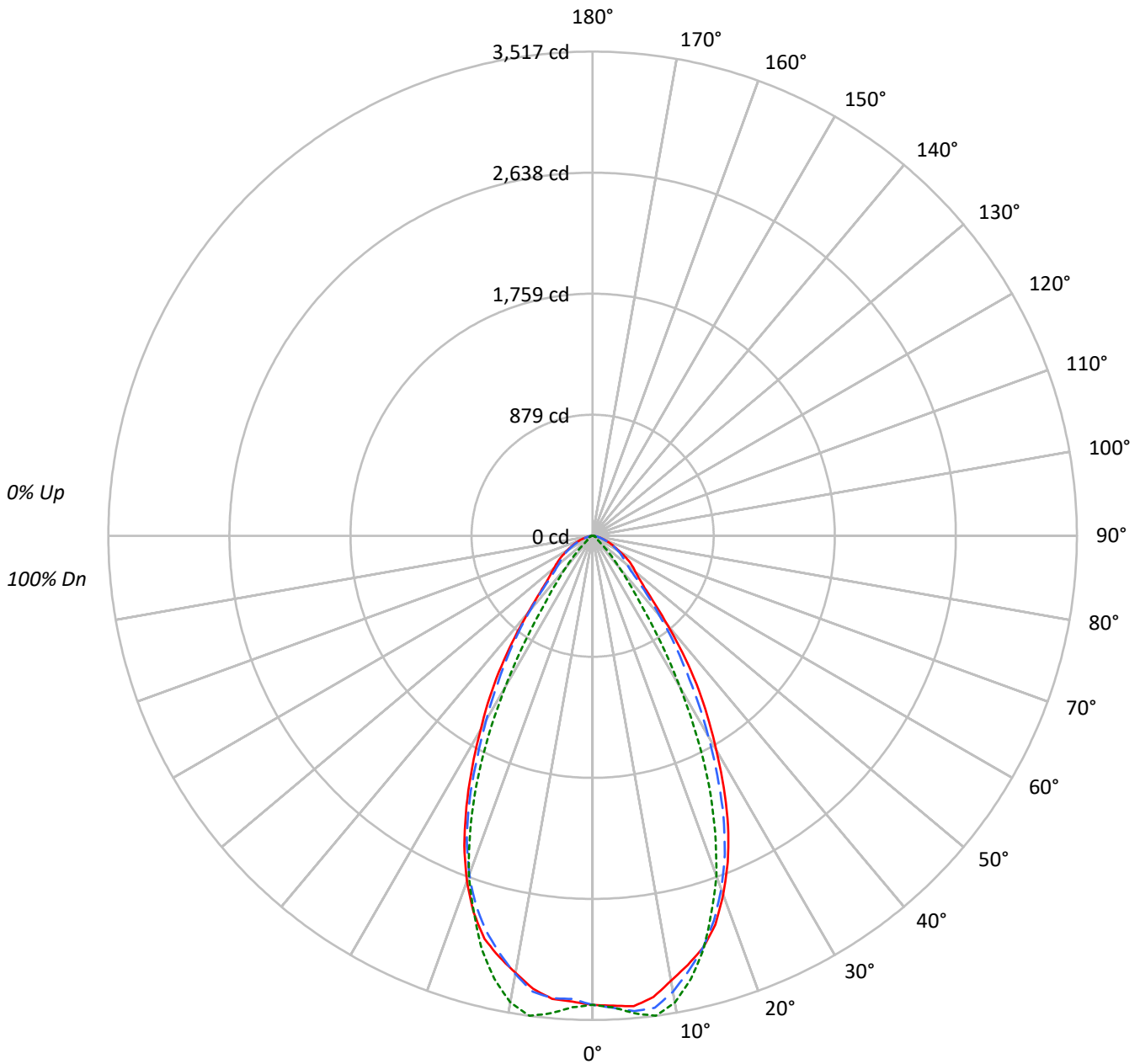
Lumens per Lamp: N/A  
Luminaire Lumens: 3469.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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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			100
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55			55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48			48
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	186800	186800	186800
5°	188751	191613	185796
10°	182634	191607	179456
15°	175779	176471	172044
20°	161778	153284	155711
25°	140796	120878	131149
30°	113555	80310	103022
35°	88037	41412	77363
40°	60406	21454	52090
45°	41384	10753	36546
50°	34438	4580	31334
55°	30976	3976	27994
60°	24516	3805	23375
65°	20236	3373	20015
70°	16397	3061	16397
75°	12115	3304	12857
80°	7103	2747	7671
85°	5472	3271	5472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.4	9.4
10°-20°	851.3	24.5
20°-30°	971.7	28.0
30°-40°	644.4	18.6
40°-50°	310.8	9.0
50°-60°	191.2	5.5
60°-70°	115.7	3.3
70°-80°	48.7	1.4
80°-90°	10.7	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°	2147.4	61.9
0°-40°	2791.9	80.5
0°-60°	3293.9	95.0
0°-90°	3469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3469.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3408	3408	3408	3408	3408	
5°	3430	3466	3482	3371	3376	322
15°	3097	3097	3109	2978	3031	863
25°	2328	2250	1998	2114	2168	1055
35°	1316	1160	619	1082	1156	814
45°	534	468	139	437	471	435
55°	324	263	42	263	293	285
65°	156	149	26	140	154	157
75°	57	57	16	54	61	61
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°	3407.5	3407.5	3407.5	3407.5	3407.5	3407.5	3407.5	3407.5	3407.5
2.5°	3416.1	3421.3	3431.7	3433.5	3428.3	3395.3	3367.6	3378.0	3386.7
5°	3430.0	3440.4	3466.4	3490.7	3482.0	3426.5	3371.1	3369.3	3376.3
7.5°	3379.7	3404.0	3457.7	3518.4	3516.7	3421.3	3339.9	3319.1	3319.1
10°	3280.9	3303.5	3362.4	3443.9	3442.1	3322.5	3232.4	3222.0	3223.8
12.5°	3192.6	3203.0	3232.4	3296.5	3296.5	3178.7	3109.4	3119.8	3133.6
15°	3097.2	3104.2	3097.2	3118.0	3109.4	3012.3	2977.6	3010.6	3031.4
17.5°	2962.0	2965.5	2929.1	2901.4	2868.4	2807.8	2816.5	2865.0	2870.2
20°	2773.1	2795.7	2729.8	2658.7	2627.5	2570.3	2618.9	2672.6	2669.1
22.5°	2565.1	2591.1	2506.2	2388.4	2324.2	2301.7	2388.4	2436.9	2435.1
25°	2327.7	2346.8	2249.7	2085.0	1998.4	1994.9	2114.5	2164.8	2168.2
27.5°	2060.8	2067.7	1958.5	1743.6	1636.1	1662.1	1812.9	1882.3	1890.9
30°	1793.9	1790.4	1677.7	1410.8	1268.7	1339.8	1542.5	1618.8	1627.5
32.5°	1549.5	1539.1	1410.8	1091.9	922.1	1027.8	1294.7	1374.4	1388.3
35°	1315.5	1298.2	1159.5	807.7	618.8	776.5	1081.5	1150.8	1156.0
37.5°	1071.1	1062.5	953.3	604.9	431.6	589.3	882.2	932.5	927.3
40°	844.1	844.1	753.9	448.9	299.8	438.5	698.5	743.5	727.9
42.5°	662.1	670.7	594.5	331.0	213.2	325.8	552.9	594.5	577.2
45°	533.8	533.8	468.0	246.1	138.7	242.6	436.8	474.9	471.4
47.5°	452.4	445.4	379.6	180.3	76.3	182.0	367.4	414.2	412.5
50°	403.8	393.4	325.8	142.1	53.7	150.8	322.4	365.7	367.4
52.5°	365.7	350.1	292.9	126.5	46.8	131.7	292.9	327.6	327.6
55°	324.1	315.4	263.4	112.7	41.6	117.9	263.4	294.6	292.9
57.5°	273.8	272.1	235.7	102.3	38.1	104.0	235.7	254.8	247.8
60°	223.6	230.5	204.5	91.9	34.7	93.6	201.1	216.7	213.2
62.5°	187.2	195.9	178.5	81.5	29.5	83.2	169.9	185.5	182.0
65°	156.0	162.9	149.1	69.3	26.0	69.3	140.4	154.3	154.3
67.5°	128.3	133.5	123.1	57.2	22.5	57.2	114.4	126.5	128.3
70°	102.3	105.7	97.1	45.1	19.1	46.8	90.1	102.3	102.3
72.5°	79.7	81.5	76.3	36.4	17.3	36.4	69.3	79.7	79.7
75°	57.2	60.7	57.2	27.7	15.6	27.7	53.7	58.9	60.7
77.5°	32.9	41.6	41.6	22.5	12.1	20.8	38.1	39.9	39.9
80°	22.5	26.0	29.5	15.6	8.7	15.6	24.3	26.0	24.3
82.5°	15.6	17.3	17.3	10.4	6.9	10.4	15.6	17.3	15.6
85°	8.7	12.1	12.1	8.7	5.2	6.9	8.7	10.4	8.7
87.5°	5.2	6.9	8.7	6.9	5.2	5.2	5.2	5.2	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)