

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: P799797

Luminaire Tested: **LD6C50D010 EU6509035 6LBMDDWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799797  
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: LD6C50D010 EU6509035 6LBMDDWH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

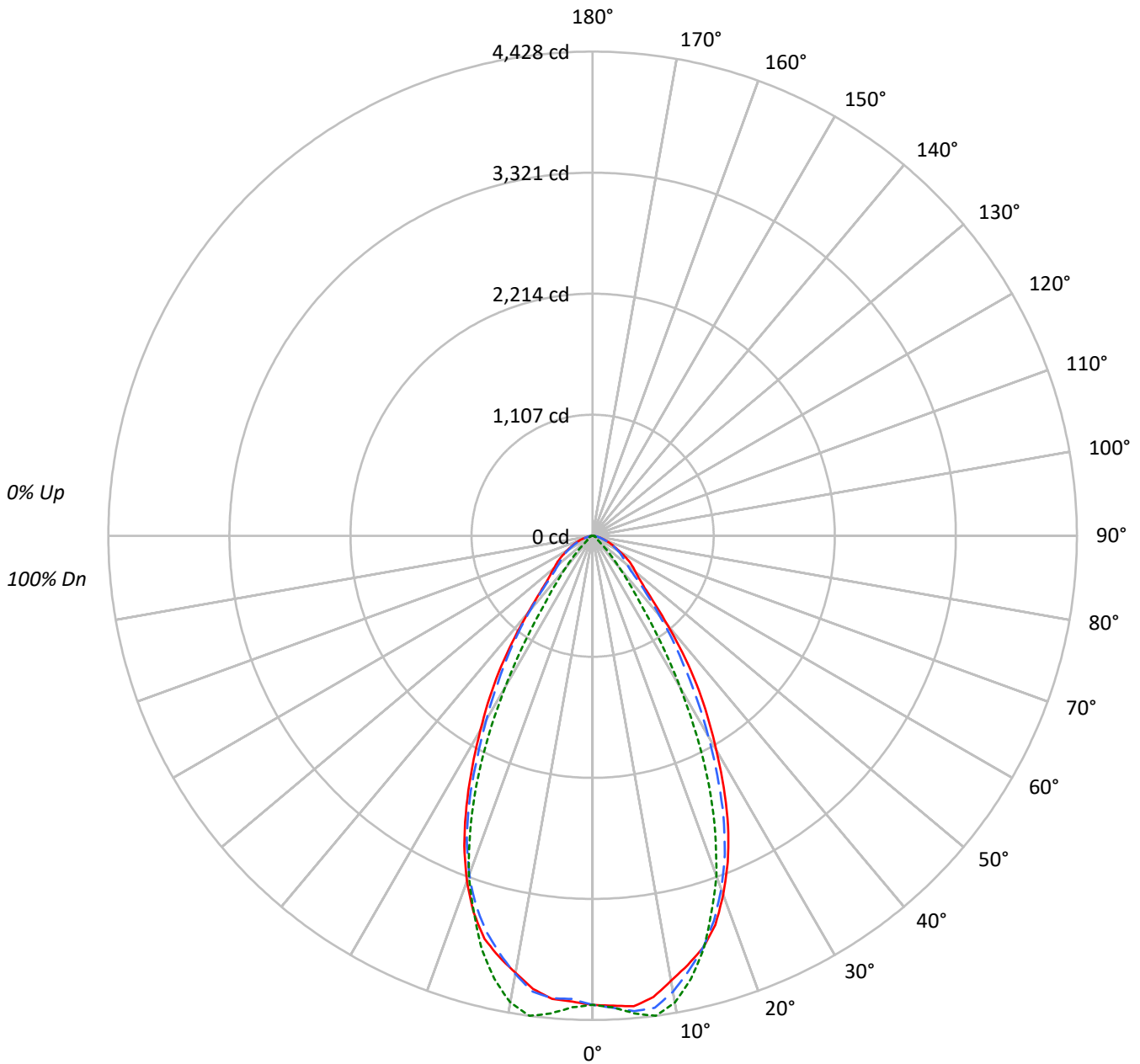
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4368.0 lumens  
Efficiency: N/A  
Efficacy: 74.8 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): 58.4  
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: P799797

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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°	235206	235206	235206
5°	237667	241272	233942
10°	229967	241267	225959
15°	221335	222203	216630
20°	203706	193013	196064
25°	177282	152204	165137
30°	142978	101123	129716
35°	110851	52140	97413
40°	76057	27015	65594
45°	52114	13536	46020
50°	43367	5774	39461
55°	39005	5008	35248
60°	30864	4780	29427
65°	25476	4242	25191
70°	20645	3847	20645
75°	15250	4151	16182
80°	8966	3441	9660
85°	6856	4088	6856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.4	9.4
10°-20°	1072.0	24.5
20°-30°	1223.6	28.0
30°-40°	811.4	18.6
40°-50°	391.4	9.0
50°-60°	240.8	5.5
60°-70°	145.7	3.3
70°-80°	61.3	1.4
80°-90°	13.5	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°	2703.9	61.9
0°-40°	3515.4	80.5
0°-60°	4147.5	95.0
0°-90°	4368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4290	4290	4290	4290	4290	
5°	4319	4365	4384	4245	4251	406
15°	3900	3900	3915	3749	3817	1087
25°	2931	2833	2516	2662	2730	1329
35°	1656	1460	779	1362	1456	1024
45°	672	589	175	550	594	548
55°	408	332	52	332	369	359
65°	196	188	33	177	194	197
75°	72	72	20	68	76	77
85°	11	15	6	11	11	14
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°	4290.5	4290.5	4290.5	4290.5	4290.5	4290.5	4290.5	4290.5	4290.5
2.5°	4301.4	4308.0	4321.1	4323.3	4316.7	4275.3	4240.3	4253.4	4264.3
5°	4318.9	4332.0	4364.7	4395.3	4384.4	4314.5	4244.7	4242.5	4251.2
7.5°	4255.6	4286.2	4353.8	4430.2	4428.0	4308.0	4205.4	4179.2	4179.2
10°	4131.2	4159.6	4233.8	4336.4	4334.2	4183.6	4070.1	4057.0	4059.2
12.5°	4019.9	4033.0	4070.1	4150.9	4150.9	4002.5	3915.2	3928.3	3945.7
15°	3899.9	3908.6	3899.9	3926.1	3915.2	3792.9	3749.3	3790.8	3817.0
17.5°	3729.7	3734.0	3688.2	3653.3	3611.8	3535.4	3546.3	3607.4	3614.0
20°	3491.8	3520.2	3437.2	3347.7	3308.5	3236.4	3297.6	3365.2	3360.8
22.5°	3229.9	3262.6	3155.7	3007.3	2926.6	2898.2	3007.3	3068.4	3066.2
25°	2930.9	2954.9	2832.7	2625.4	2516.3	2511.9	2662.5	2725.8	2730.1
27.5°	2594.8	2603.6	2466.1	2195.5	2060.2	2092.9	2282.8	2370.0	2381.0
30°	2258.7	2254.4	2112.5	1776.4	1597.5	1687.0	1942.3	2038.3	2049.2
32.5°	1951.0	1937.9	1776.4	1374.9	1161.0	1294.1	1630.2	1730.6	1748.1
35°	1656.4	1634.6	1460.0	1017.0	779.1	977.7	1361.8	1449.1	1455.6
37.5°	1348.7	1337.8	1200.3	761.6	543.4	742.0	1110.8	1174.1	1167.6
40°	1062.8	1062.8	949.3	565.2	377.5	552.1	879.5	936.2	916.6
42.5°	833.7	844.6	748.6	416.8	268.4	410.3	696.2	748.6	726.7
45°	672.2	672.2	589.2	309.9	174.6	305.5	550.0	598.0	593.6
47.5°	569.6	560.9	477.9	227.0	96.0	229.1	462.7	521.6	519.4
50°	508.5	495.4	410.3	179.0	67.7	189.9	405.9	460.5	462.7
52.5°	460.5	440.8	368.8	159.3	58.9	165.9	368.8	412.5	412.5
55°	408.1	397.2	331.7	141.9	52.4	148.4	331.7	371.0	368.8
57.5°	344.8	342.6	296.8	128.8	48.0	130.9	296.8	320.8	312.1
60°	281.5	290.3	257.5	115.7	43.6	117.8	253.2	272.8	268.4
62.5°	235.7	246.6	224.8	102.6	37.1	104.8	213.9	233.5	229.1
65°	196.4	205.1	187.7	87.3	32.7	87.3	176.8	194.2	194.2
67.5°	161.5	168.0	154.9	72.0	28.4	72.0	144.0	159.3	161.5
70°	128.8	133.1	122.2	56.7	24.0	58.9	113.5	128.8	128.8
72.5°	100.4	102.6	96.0	45.8	21.8	45.8	87.3	100.4	100.4
75°	72.0	76.4	72.0	34.9	19.6	34.9	67.7	74.2	76.4
77.5°	41.5	52.4	52.4	28.4	15.3	26.2	48.0	50.2	50.2
80°	28.4	32.7	37.1	19.6	10.9	19.6	30.6	32.7	30.6
82.5°	19.6	21.8	21.8	13.1	8.7	13.1	19.6	21.8	19.6
85°	10.9	15.3	15.3	10.9	6.5	8.7	10.9	13.1	10.9
87.5°	6.5	8.7	10.9	8.7	6.5	6.5	6.5	6.5	4.4
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)