

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: P799728

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDDWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799728  
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: LD6C45D010 EU6459030 6LBMDDWWH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

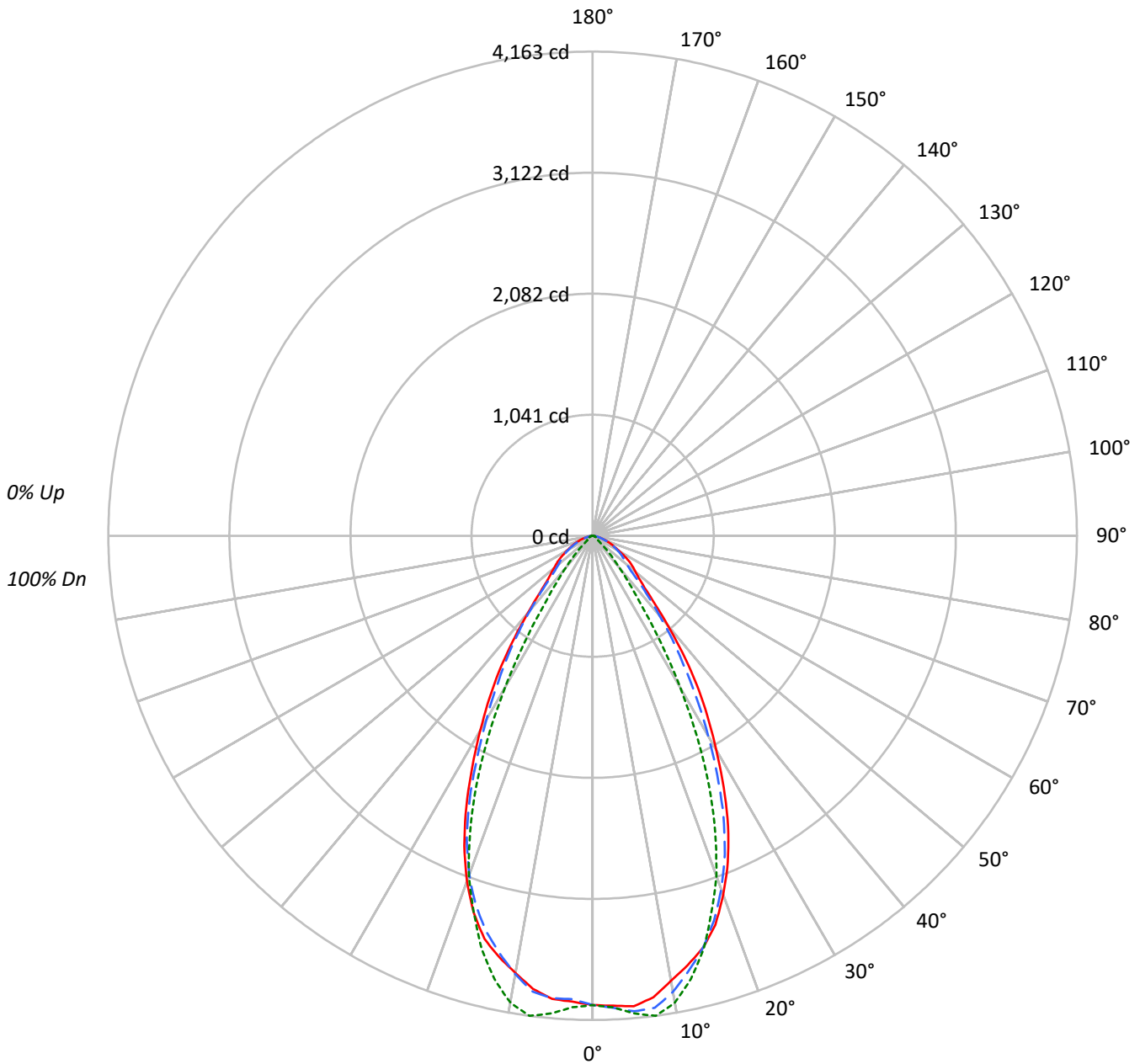
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4107.0 lumens  
Efficiency: N/A  
Efficacy: 82.8 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): 49.6  
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									
RC	80									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°	221156	221156	221156
5°	223464	226854	219964
10°	216228	226850	212460
15°	208111	208923	203684
20°	191531	181479	184349
25°	166691	143107	155271
30°	134438	95078	121968
35°	104226	49028	91598
40°	71513	25405	61673
45°	48997	12730	43268
50°	40775	5424	37099
55°	36673	4702	33146
60°	29022	4495	27673
65°	23958	3995	23686
70°	19410	3622	19410
75°	14339	3918	15208
80°	8429	3252	9060
85°	6479	3900	6479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.0	9.4
10°-20°	1007.9	24.5
20°-30°	1150.5	28.0
30°-40°	763.0	18.6
40°-50°	368.0	9.0
50°-60°	226.4	5.5
60°-70°	137.0	3.3
70°-80°	57.6	1.4
80°-90°	12.7	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°	2542.4	61.9
0°-40°	3305.3	80.5
0°-60°	3899.7	95.0
0°-90°	4107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4034	4034	4034	4034	4034	
5°	4061	4104	4122	3991	3997	382
15°	3667	3667	3681	3525	3589	1022
25°	2756	2663	2366	2503	2567	1250
35°	1557	1373	733	1280	1369	963
45°	632	554	164	517	558	515
55°	384	312	49	312	347	337
65°	185	176	31	166	183	185
75°	68	68	18	64	72	72
85°	10	14	6	10	10	13
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°	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2	4034.2
2.5°	4044.4	4050.6	4062.9	4064.9	4058.8	4019.8	3987.0	3999.3	4009.5
5°	4060.8	4073.1	4103.9	4132.7	4122.4	4056.7	3991.1	3989.0	3997.2
7.5°	4001.3	4030.1	4093.7	4165.5	4163.4	4050.6	3954.1	3929.5	3929.5
10°	3884.4	3911.0	3980.8	4077.2	4075.2	3933.6	3826.9	3814.6	3816.7
12.5°	3779.7	3792.0	3826.9	3902.8	3902.8	3763.3	3681.2	3693.5	3709.9
15°	3666.9	3675.1	3666.9	3691.5	3681.2	3566.3	3525.3	3564.3	3588.9
17.5°	3506.8	3510.9	3467.8	3435.0	3396.0	3324.2	3334.4	3391.9	3398.0
20°	3283.1	3309.8	3231.8	3147.7	3110.8	3043.1	3100.5	3164.1	3160.0
22.5°	3036.9	3067.7	2967.1	2827.6	2751.7	2725.0	2827.6	2885.1	2883.0
25°	2755.8	2778.4	2663.4	2468.5	2365.9	2361.8	2503.4	2562.9	2567.0
27.5°	2439.8	2448.0	2318.7	2064.3	1937.1	1967.8	2146.4	2228.4	2238.7
30°	2123.8	2119.7	1986.3	1670.3	1502.0	1586.2	1826.2	1916.5	1926.8
32.5°	1834.5	1822.1	1670.3	1292.7	1091.6	1216.8	1532.8	1627.2	1643.6
35°	1557.4	1536.9	1372.8	956.2	732.6	919.3	1280.4	1362.5	1368.7
37.5°	1268.1	1257.9	1128.6	716.1	510.9	697.7	1044.4	1104.0	1097.8
40°	999.3	999.3	892.6	531.5	355.0	519.1	826.9	880.3	861.8
42.5°	783.8	794.1	703.8	391.9	252.4	385.8	654.6	703.8	683.3
45°	632.0	632.0	554.0	291.4	164.2	287.3	517.1	562.2	558.1
47.5°	535.6	527.4	449.4	213.4	90.3	215.5	435.0	490.4	488.4
50°	478.1	465.8	385.8	168.3	63.6	178.5	381.7	433.0	435.0
52.5°	433.0	414.5	346.8	149.8	55.4	155.9	346.8	387.8	387.8
55°	383.7	373.5	311.9	133.4	49.2	139.5	311.9	348.8	346.8
57.5°	324.2	322.2	279.1	121.1	45.1	123.1	279.1	301.6	293.4
60°	264.7	272.9	242.1	108.8	41.0	110.8	238.0	256.5	252.4
62.5°	221.6	231.9	211.4	96.4	34.9	98.5	201.1	219.6	215.5
65°	184.7	192.9	176.5	82.1	30.8	82.1	166.2	182.6	182.6
67.5°	151.8	158.0	145.7	67.7	26.7	67.7	135.4	149.8	151.8
70°	121.1	125.2	114.9	53.4	22.6	55.4	106.7	121.1	121.1
72.5°	94.4	96.4	90.3	43.1	20.5	43.1	82.1	94.4	94.4
75°	67.7	71.8	67.7	32.8	18.5	32.8	63.6	69.8	71.8
77.5°	39.0	49.2	49.2	26.7	14.4	24.6	45.1	47.2	47.2
80°	26.7	30.8	34.9	18.5	10.3	18.5	28.7	30.8	28.7
82.5°	18.5	20.5	20.5	12.3	8.2	12.3	18.5	20.5	18.5
85°	10.3	14.4	14.4	10.3	6.2	8.2	10.3	12.3	10.3
87.5°	6.2	8.2	10.3	8.2	6.2	6.2	6.2	6.2	4.1
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)