

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: P799751

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDDWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799751  
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 EU6459040 6LBMDDWMW  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

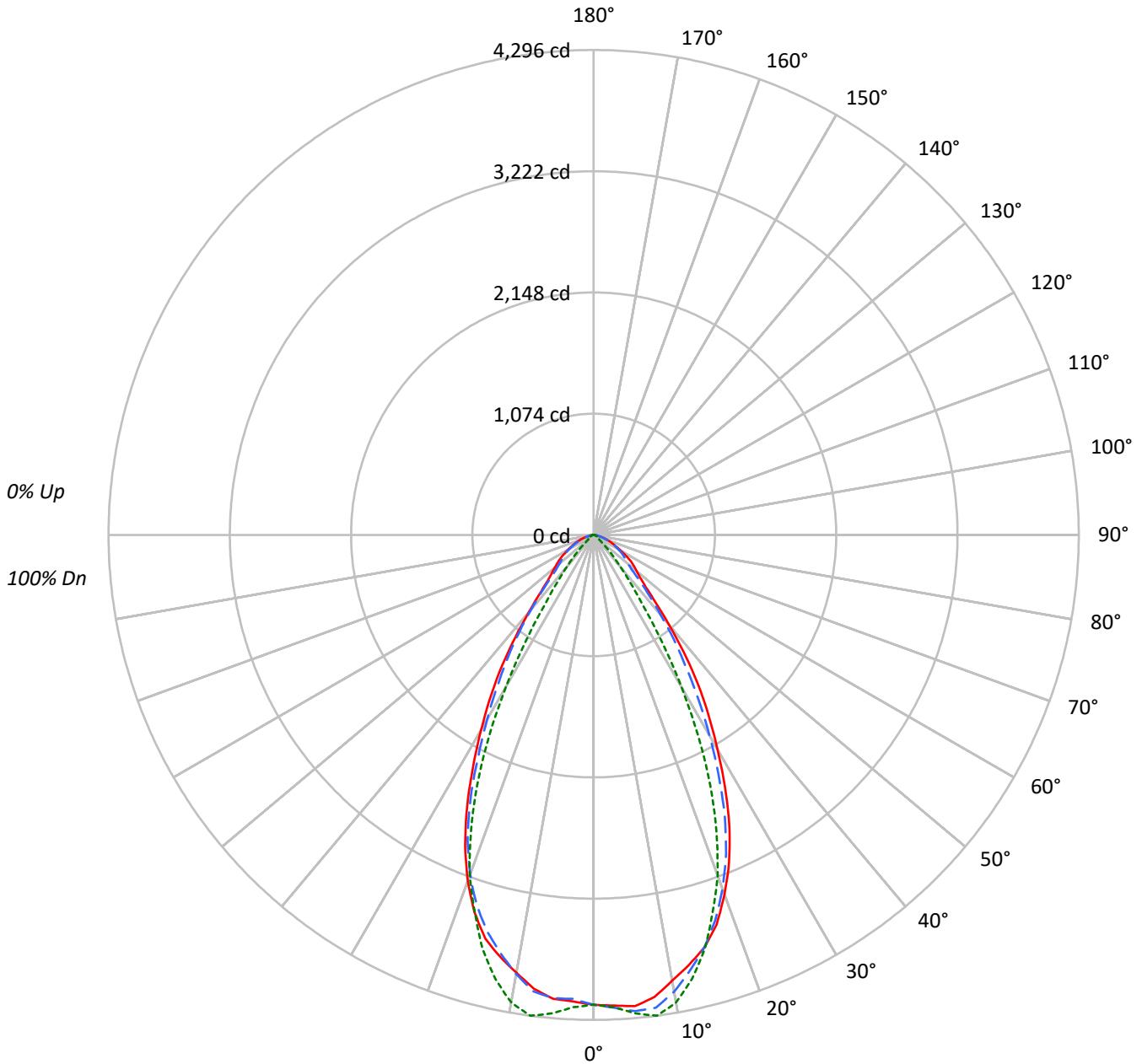
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4238.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 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					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°	228205	228205	228205
5°	230596	234090	226980
10°	223125	234086	219234
15°	214746	215586	210183
20°	197645	187266	190230
25°	172008	147674	160225
30°	138724	98110	125861
35°	107552	50587	94515
40°	73795	26213	63641
45°	50563	13133	44648
50°	42080	5595	38284
55°	37848	4855	34197
60°	29943	4638	28550
65°	24724	4125	24438
70°	20019	3735	20019
75°	14805	4046	15695
80°	8682	3346	9345
85°	6667	4026	6667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.3	9.4
10°-20°	1040.1	24.5
20°-30°	1187.2	28.0
30°-40°	787.3	18.6
40°-50°	379.7	9.0
50°-60°	233.6	5.5
60°-70°	141.3	3.3
70°-80°	59.5	1.4
80°-90°	13.1	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°	2623.5	61.9
0°-40°	3410.8	80.5
0°-60°	4024.1	95.0
0°-90°	4238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4163	4163	4163	4163	4163	
5°	4190	4235	4254	4118	4125	394
15°	3784	3784	3799	3638	3703	1054
25°	2844	2748	2441	2583	2649	1289
35°	1607	1416	756	1321	1412	994
45°	652	572	169	534	576	532
55°	396	322	51	322	358	348
65°	191	182	32	172	188	191
75°	70	70	19	66	74	75
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°	4162.8	4162.8	4162.8	4162.8	4162.8	4162.8	4162.8	4162.8	4162.8
2.5°	4173.4	4179.8	4192.5	4194.6	4188.2	4148.0	4114.1	4126.8	4137.4
5°	4190.4	4203.1	4234.8	4264.5	4253.9	4186.1	4118.4	4116.3	4124.7
7.5°	4129.0	4158.6	4224.2	4298.3	4296.2	4179.8	4080.3	4054.8	4054.8
10°	4008.3	4035.8	4107.8	4207.3	4205.2	4059.1	3949.0	3936.3	3938.4
12.5°	3900.3	3913.0	3949.0	4027.3	4027.3	3883.3	3798.6	3811.3	3828.3
15°	3783.8	3792.3	3783.8	3809.2	3798.6	3680.1	3637.7	3677.9	3703.4
17.5°	3618.7	3622.9	3578.4	3544.5	3504.3	3430.2	3440.8	3500.1	3506.4
20°	3387.9	3415.4	3334.9	3248.1	3210.0	3140.1	3199.4	3265.1	3260.8
22.5°	3133.8	3165.5	3061.8	2917.8	2839.5	2811.9	2917.8	2977.1	2975.0
25°	2843.7	2867.0	2748.4	2547.2	2441.4	2437.1	2583.2	2644.6	2648.9
27.5°	2517.6	2526.1	2392.7	2130.1	1998.8	2030.6	2214.8	2299.5	2310.1
30°	2191.5	2187.3	2049.7	1723.6	1549.9	1636.8	1884.5	1977.7	1988.3
32.5°	1893.0	1880.3	1723.6	1334.0	1126.5	1255.6	1581.7	1679.1	1696.0
35°	1607.1	1585.9	1416.5	986.7	755.9	948.6	1321.3	1406.0	1412.3
37.5°	1308.6	1298.0	1164.6	739.0	527.2	719.9	1077.8	1139.2	1132.8
40°	1031.2	1031.2	921.1	548.4	366.3	535.7	853.3	908.4	889.3
42.5°	808.9	819.4	726.3	404.4	260.4	398.1	675.5	726.3	705.1
45°	652.2	652.2	571.7	300.7	169.4	296.4	533.6	580.2	575.9
47.5°	552.6	544.2	463.7	220.2	93.2	222.3	448.9	506.1	503.9
50°	493.4	480.7	398.1	173.6	65.6	184.2	393.8	446.8	448.9
52.5°	446.8	427.7	357.8	154.6	57.2	160.9	357.8	400.2	400.2
55°	396.0	385.4	321.8	137.6	50.8	144.0	321.8	360.0	357.8
57.5°	334.6	332.4	288.0	124.9	46.6	127.0	288.0	311.3	302.8
60°	273.1	281.6	249.9	112.2	42.3	114.3	245.6	264.7	260.4
62.5°	228.7	239.3	218.1	99.5	36.0	101.6	207.5	226.6	222.3
65°	190.6	199.0	182.1	84.7	31.8	84.7	171.5	188.4	188.4
67.5°	156.7	163.0	150.3	69.9	27.5	69.9	139.7	154.6	156.7
70°	124.9	129.2	118.6	55.1	23.3	57.2	110.1	124.9	124.9
72.5°	97.4	99.5	93.2	44.5	21.2	44.5	84.7	97.4	97.4
75°	69.9	74.1	69.9	33.9	19.1	33.9	65.6	72.0	74.1
77.5°	40.2	50.8	50.8	27.5	14.8	25.4	46.6	48.7	48.7
80°	27.5	31.8	36.0	19.1	10.6	19.1	29.6	31.8	29.6
82.5°	19.1	21.2	21.2	12.7	8.5	12.7	19.1	21.2	19.1
85°	10.6	14.8	14.8	10.6	6.4	8.5	10.6	12.7	10.6
87.5°	6.4	8.5	10.6	8.5	6.4	6.4	6.4	6.4	4.2
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)