

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: P799752

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDDWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799752  
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 6LBMDDWWH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

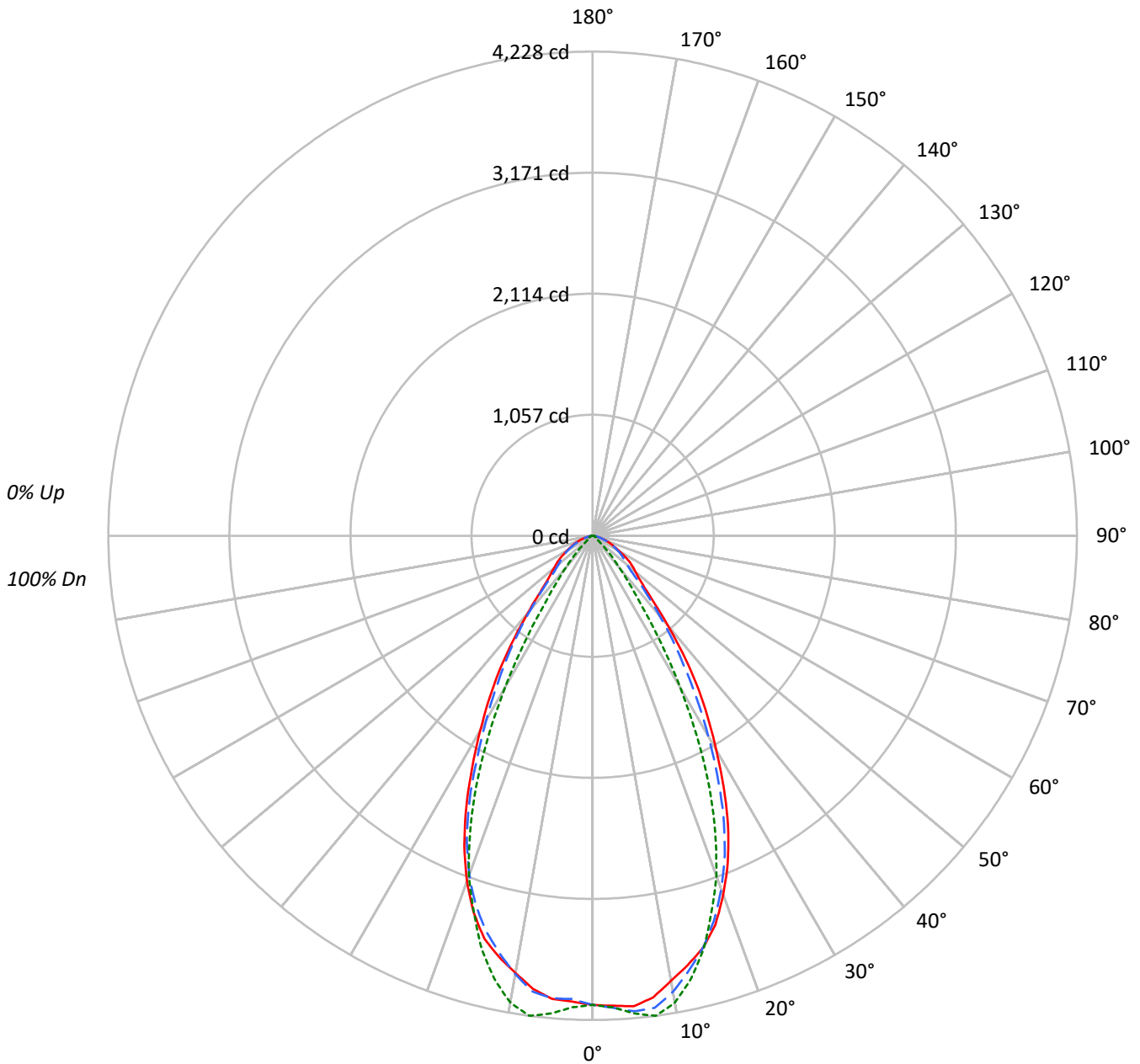
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4171.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 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°	224598	224598	224598
5°	226947	230387	223393
10°	219596	230384	215766
15°	211352	212181	206857
20°	194518	184309	187225
25°	169286	145339	157691
30°	136534	96559	123867
35°	105852	49791	93023
40°	72629	25798	62639
45°	49765	12924	43943
50°	41414	5509	37679
55°	37246	4779	33662
60°	29471	4572	28101
65°	24335	4060	24062
70°	19715	3670	19715
75°	14572	3982	15441
80°	8555	3283	9218
85°	6542	3963	6542



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.0	9.4
10°-20°	1023.6	24.5
20°-30°	1168.4	28.0
30°-40°	774.8	18.6
40°-50°	373.7	9.0
50°-60°	229.9	5.5
60°-70°	139.1	3.3
70°-80°	58.5	1.4
80°-90°	12.9	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°	2582.0	61.9
0°-40°	3356.8	80.5
0°-60°	3960.5	95.0
0°-90°	4171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4097	4097	4097	4097	4097	
5°	4124	4168	4187	4053	4060	387
15°	3724	3724	3739	3580	3645	1038
25°	2799	2705	2403	2542	2607	1269
35°	1582	1394	744	1300	1390	978
45°	642	563	167	525	567	523
55°	390	317	50	317	352	343
65°	188	179	31	169	186	188
75°	69	69	19	65	73	73
85°	10	15	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°	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0	4097.0
2.5°	4107.4	4113.7	4126.2	4128.3	4122.0	4082.4	4049.1	4061.6	4072.0
5°	4124.1	4136.6	4167.9	4197.1	4186.6	4119.9	4053.3	4051.2	4059.5
7.5°	4063.7	4092.9	4157.5	4230.4	4228.3	4113.7	4015.7	3990.7	3990.7
10°	3944.9	3972.0	4042.8	4140.8	4138.7	3994.9	3886.5	3874.0	3876.1
12.5°	3838.6	3851.1	3886.5	3963.7	3963.7	3821.9	3738.6	3751.1	3767.8
15°	3724.0	3732.3	3724.0	3749.0	3738.6	3621.9	3580.2	3619.8	3644.8
17.5°	3561.5	3565.6	3521.9	3488.5	3448.9	3376.0	3386.4	3444.8	3451.0
20°	3334.3	3361.4	3282.2	3196.8	3159.3	3090.5	3148.8	3213.4	3209.3
22.5°	3084.2	3115.5	3013.4	2871.7	2794.6	2767.5	2871.7	2930.0	2927.9
25°	2798.7	2821.7	2705.0	2507.0	2402.8	2398.6	2542.4	2602.8	2607.0
27.5°	2477.8	2486.1	2354.9	2096.4	1967.2	1998.5	2179.8	2263.2	2273.6
30°	2156.9	2152.7	2017.3	1696.3	1525.4	1610.9	1854.7	1946.4	1956.8
32.5°	1863.0	1850.5	1696.3	1312.9	1108.7	1235.8	1556.7	1652.6	1669.2
35°	1581.7	1560.9	1394.2	971.1	744.0	933.6	1300.4	1383.7	1390.0
37.5°	1287.9	1277.5	1146.2	727.3	518.9	708.5	1060.7	1121.2	1114.9
40°	1014.9	1014.9	906.5	539.7	360.5	527.2	839.8	894.0	875.3
42.5°	796.1	806.5	714.8	398.0	256.3	391.8	664.8	714.8	694.0
45°	641.9	641.9	562.7	295.9	166.7	291.8	525.2	571.0	566.8
47.5°	543.9	535.6	456.4	216.7	91.7	218.8	441.8	498.1	496.0
50°	485.6	473.1	391.8	170.9	64.6	181.3	387.6	439.7	441.8
52.5°	439.7	421.0	352.2	152.1	56.3	158.4	352.2	393.9	393.9
55°	389.7	379.3	316.8	135.5	50.0	141.7	316.8	354.3	352.2
57.5°	329.3	327.2	283.4	123.0	45.8	125.0	283.4	306.3	298.0
60°	268.8	277.2	245.9	110.4	41.7	112.5	241.7	260.5	256.3
62.5°	225.1	235.5	214.6	97.9	35.4	100.0	204.2	223.0	218.8
65°	187.6	195.9	179.2	83.4	31.3	83.4	168.8	185.5	185.5
67.5°	154.2	160.5	148.0	68.8	27.1	68.8	137.5	152.1	154.2
70°	123.0	127.1	116.7	54.2	22.9	56.3	108.4	123.0	123.0
72.5°	95.9	97.9	91.7	43.8	20.8	43.8	83.4	95.9	95.9
75°	68.8	72.9	68.8	33.3	18.8	33.3	64.6	70.9	72.9
77.5°	39.6	50.0	50.0	27.1	14.6	25.0	45.8	47.9	47.9
80°	27.1	31.3	35.4	18.8	10.4	18.8	29.2	31.3	29.2
82.5°	18.8	20.8	20.8	12.5	8.3	12.5	18.8	20.8	18.8
85°	10.4	14.6	14.6	10.4	6.3	8.3	10.4	12.5	10.4
87.5°	6.3	8.3	10.4	8.3	6.3	6.3	6.3	6.3	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)