

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: P799765

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDDWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799765  
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 EU6459050 6LBMDDWWMH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

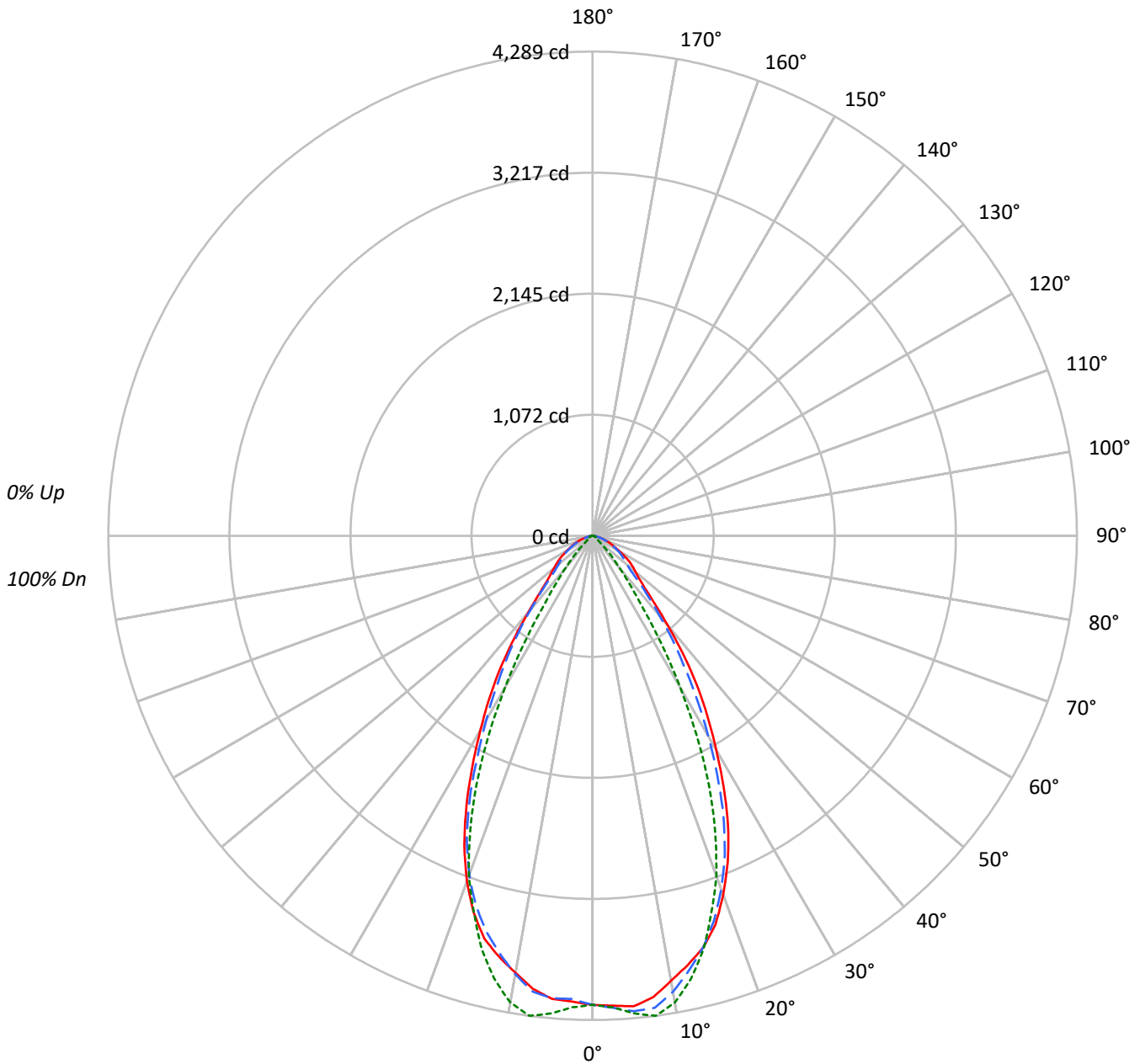
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4231.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 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°	227833	227833	227833
5°	230211	233705	226606
10°	222753	233696	218873
15°	214394	215234	209831
20°	197318	186957	189915
25°	171724	147426	159959
30°	138496	97952	125652
35°	107378	50507	94362
40°	73674	26170	63533
45°	50478	13110	44578
50°	42003	5586	38225
55°	37781	4846	34149
60°	29899	4638	28506
65°	24685	4112	24399
70°	19987	3735	19987
75°	14784	4024	15674
80°	8682	3346	9345
85°	6667	3963	6667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.6	9.4
10°-20°	1038.3	24.5
20°-30°	1185.2	28.0
30°-40°	786.0	18.6
40°-50°	379.1	9.0
50°-60°	233.2	5.5
60°-70°	141.1	3.3
70°-80°	59.4	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°	2619.1	61.9
0°-40°	3405.1	80.5
0°-60°	4017.4	95.0
0°-90°	4231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4156	4156	4156	4156	4156	
5°	4183	4228	4247	4112	4118	393
15°	3778	3778	3792	3632	3697	1053
25°	2839	2744	2437	2579	2644	1287
35°	1604	1414	755	1319	1410	992
45°	651	571	169	533	575	531
55°	395	321	51	321	357	348
65°	190	182	32	171	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°	4156.0	4156.0	4156.0	4156.0	4156.0	4156.0	4156.0	4156.0	4156.0
2.5°	4166.5	4172.9	4185.6	4187.7	4181.3	4141.2	4107.3	4120.0	4130.6
5°	4183.4	4196.1	4227.8	4257.4	4246.9	4179.2	4111.6	4109.5	4117.9
7.5°	4122.1	4151.7	4217.3	4291.2	4289.1	4172.9	4073.5	4048.1	4048.1
10°	4001.6	4029.1	4101.0	4200.4	4198.2	4052.4	3942.5	3929.8	3931.9
12.5°	3893.8	3906.5	3942.5	4020.7	4020.7	3876.9	3792.4	3805.0	3822.0
15°	3777.6	3786.0	3777.6	3802.9	3792.4	3674.0	3631.7	3671.9	3697.2
17.5°	3612.7	3616.9	3572.5	3538.7	3498.5	3424.5	3435.1	3494.3	3500.6
20°	3382.3	3409.7	3329.4	3242.7	3204.7	3134.9	3194.1	3259.7	3255.4
22.5°	3128.6	3160.3	3056.7	2913.0	2834.8	2807.3	2913.0	2972.2	2970.1
25°	2839.0	2862.2	2743.9	2543.0	2437.3	2433.1	2579.0	2640.3	2644.5
27.5°	2513.4	2521.9	2388.7	2126.6	1995.5	2027.2	2211.2	2295.7	2306.3
30°	2187.9	2183.7	2046.3	1720.7	1547.4	1634.1	1881.4	1974.4	1985.0
32.5°	1889.8	1877.2	1720.7	1331.8	1124.6	1253.6	1579.1	1676.3	1693.2
35°	1604.5	1583.3	1414.2	985.1	754.7	947.0	1319.1	1403.6	1410.0
37.5°	1306.4	1295.8	1162.7	737.8	526.4	718.7	1076.0	1137.3	1130.9
40°	1029.5	1029.5	919.6	547.5	365.7	534.8	851.9	906.9	887.8
42.5°	807.5	818.1	725.1	403.8	260.0	397.4	674.3	725.1	703.9
45°	651.1	651.1	570.8	300.2	169.1	295.9	532.7	579.2	575.0
47.5°	551.7	543.3	462.9	219.8	93.0	222.0	448.2	505.2	503.1
50°	492.5	479.9	397.4	173.3	65.5	183.9	393.2	446.0	448.2
52.5°	446.0	427.0	357.3	154.3	57.1	160.7	357.3	399.5	399.5
55°	395.3	384.7	321.3	137.4	50.7	143.7	321.3	359.4	357.3
57.5°	334.0	331.9	287.5	124.7	46.5	126.8	287.5	310.7	302.3
60°	272.7	281.2	249.4	112.0	42.3	114.2	245.2	264.2	260.0
62.5°	228.3	238.9	217.7	99.4	35.9	101.5	207.2	226.2	222.0
65°	190.3	198.7	181.8	84.6	31.7	84.6	171.2	188.1	188.1
67.5°	156.4	162.8	150.1	69.8	27.5	69.8	139.5	154.3	156.4
70°	124.7	128.9	118.4	55.0	23.3	57.1	109.9	124.7	124.7
72.5°	97.2	99.4	93.0	44.4	21.1	44.4	84.6	97.2	97.2
75°	69.8	74.0	69.8	33.8	19.0	33.8	65.5	71.9	74.0
77.5°	40.2	50.7	50.7	27.5	14.8	25.4	46.5	48.6	48.6
80°	27.5	31.7	35.9	19.0	10.6	19.0	29.6	31.7	29.6
82.5°	19.0	21.1	21.1	12.7	8.5	12.7	19.0	21.1	19.0
85°	10.6	14.8	14.8	10.6	6.3	8.5	10.6	12.7	10.6
87.5°	6.3	8.5	10.6	8.5	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)