

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: P799764

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDDWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799764  
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 6LBMDDWWH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

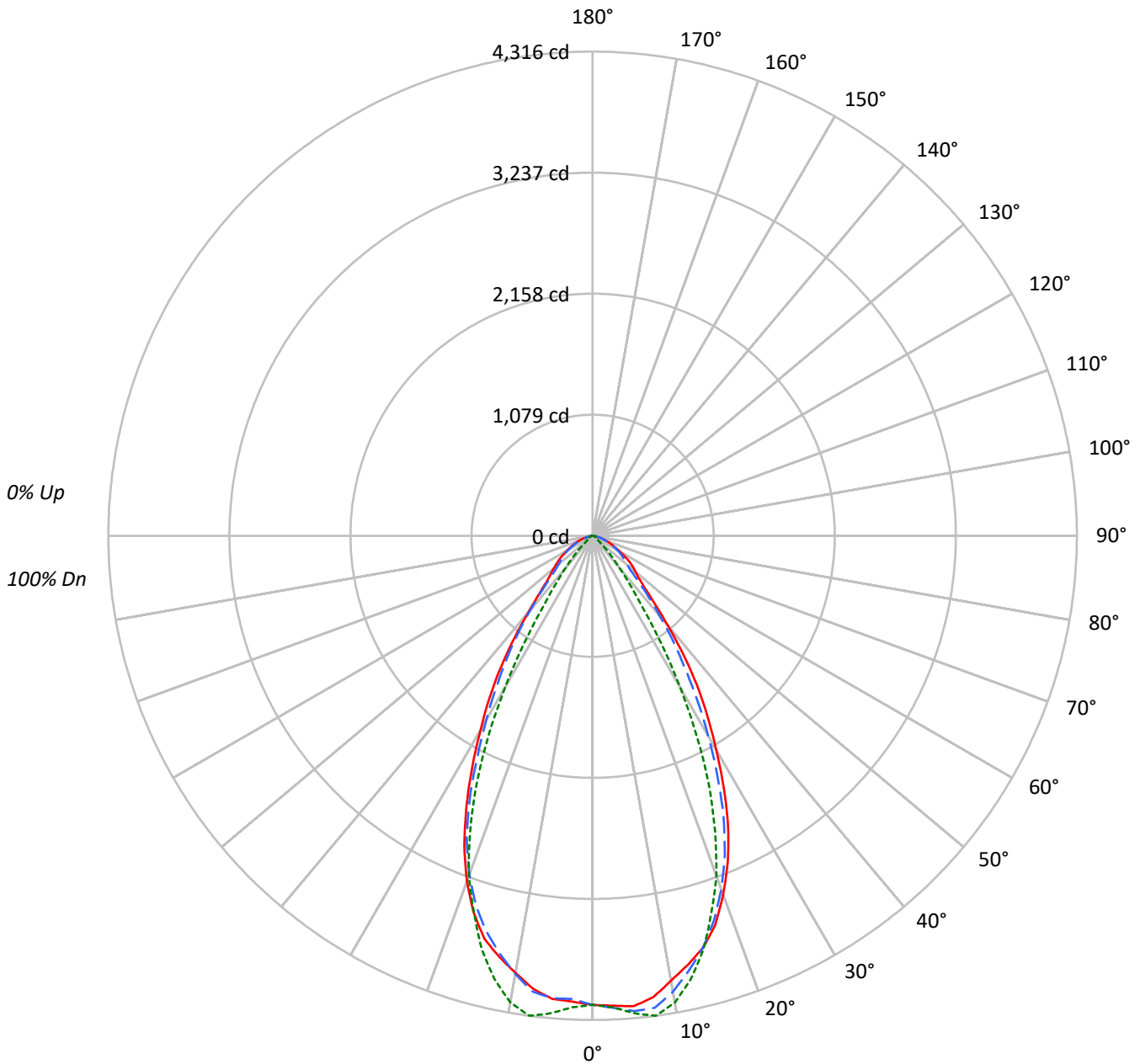
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4257.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 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°	229231	229231	229231
5°	231625	235141	227999
10°	224122	235133	220214
15°	215711	216556	211125
20°	198526	188106	191082
25°	172776	148333	160945
30°	139344	98553	126425
35°	108034	50815	94937
40°	74125	26335	63927
45°	50788	13195	44850
50°	42267	5620	38455
55°	38011	4874	34350
60°	30085	4660	28682
65°	24828	4138	24555
70°	20116	3751	20116
75°	14869	4046	15759
80°	8713	3346	9408
85°	6667	4026	6667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.0	9.4
10°-20°	1044.7	24.5
20°-30°	1192.5	28.0
30°-40°	790.8	18.6
40°-50°	381.4	9.0
50°-60°	234.6	5.5
60°-70°	142.0	3.3
70°-80°	59.7	1.4
80°-90°	13.2	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°	2635.2	61.9
0°-40°	3426.1	80.5
0°-60°	4042.1	95.0
0°-90°	4257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4182	4182	4182	4182	4182	
5°	4209	4254	4273	4137	4143	395
15°	3801	3801	3816	3654	3720	1059
25°	2856	2761	2452	2595	2661	1295
35°	1614	1423	759	1327	1419	998
45°	655	574	170	536	578	534
55°	398	323	51	323	359	350
65°	191	183	32	172	189	192
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°	4181.5	4181.5	4181.5	4181.5	4181.5	4181.5	4181.5	4181.5	4181.5
2.5°	4192.1	4198.5	4211.3	4213.4	4207.0	4166.6	4132.6	4145.3	4156.0
5°	4209.1	4221.9	4253.8	4283.6	4273.0	4204.9	4136.8	4134.7	4143.2
7.5°	4147.5	4177.2	4243.2	4317.6	4315.5	4198.5	4098.5	4073.0	4073.0
10°	4026.2	4053.9	4126.2	4226.2	4224.0	4077.3	3966.7	3953.9	3956.0
12.5°	3917.8	3930.5	3966.7	4045.4	4045.4	3900.7	3815.7	3828.4	3845.4
15°	3800.8	3809.3	3800.8	3826.3	3815.7	3696.6	3654.0	3694.4	3720.0
17.5°	3634.9	3639.1	3594.5	3560.4	3520.0	3445.6	3456.2	3515.8	3522.2
20°	3403.0	3430.7	3349.9	3262.7	3224.4	3154.2	3213.8	3279.7	3275.4
22.5°	3147.8	3179.7	3075.5	2930.9	2852.2	2824.5	2930.9	2990.4	2988.3
25°	2856.4	2879.8	2760.7	2558.7	2452.3	2448.1	2594.8	2656.5	2660.8
27.5°	2528.9	2537.4	2403.4	2139.7	2007.8	2039.7	2224.7	2309.8	2320.5
30°	2201.3	2197.1	2058.8	1731.3	1556.9	1644.1	1892.9	1986.5	1997.2
32.5°	1901.5	1888.7	1731.3	1340.0	1131.5	1261.3	1588.8	1686.6	1703.7
35°	1614.3	1593.1	1422.9	991.1	759.3	952.9	1327.2	1412.3	1418.6
37.5°	1314.4	1303.8	1169.8	742.3	529.6	723.1	1082.6	1144.3	1137.9
40°	1035.8	1035.8	925.2	550.9	368.0	538.1	857.1	912.4	893.3
42.5°	812.5	823.1	729.5	406.2	261.6	399.9	678.5	729.5	708.3
45°	655.1	655.1	574.3	302.0	170.2	297.8	536.0	582.8	578.5
47.5°	555.1	546.6	465.8	221.2	93.6	223.3	450.9	508.3	506.2
50°	495.6	482.8	399.9	174.4	65.9	185.0	395.6	448.8	450.9
52.5°	448.8	429.6	359.4	155.3	57.4	161.6	359.4	402.0	402.0
55°	397.7	387.1	323.3	138.2	51.0	144.6	323.3	361.6	359.4
57.5°	336.1	333.9	289.3	125.5	46.8	127.6	289.3	312.7	304.1
60°	274.4	282.9	251.0	112.7	42.5	114.9	246.7	265.9	261.6
62.5°	229.7	240.3	219.1	100.0	36.2	102.1	208.4	227.6	223.3
65°	191.4	199.9	182.9	85.1	31.9	85.1	172.3	189.3	189.3
67.5°	157.4	163.8	151.0	70.2	27.6	70.2	140.4	155.3	157.4
70°	125.5	129.7	119.1	55.3	23.4	57.4	110.6	125.5	125.5
72.5°	97.8	100.0	93.6	44.7	21.3	44.7	85.1	97.8	97.8
75°	70.2	74.4	70.2	34.0	19.1	34.0	65.9	72.3	74.4
77.5°	40.4	51.0	51.0	27.6	14.9	25.5	46.8	48.9	48.9
80°	27.6	31.9	36.2	19.1	10.6	19.1	29.8	31.9	29.8
82.5°	19.1	21.3	21.3	12.8	8.5	12.8	19.1	21.3	19.1
85°	10.6	14.9	14.9	10.6	6.4	8.5	10.6	12.8	10.6
87.5°	6.4	8.5	10.6	8.5	6.4	6.4	6.4	6.4	4.3
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)