

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: P799754

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C45D010 EU6459040 6LBMDSWGPH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

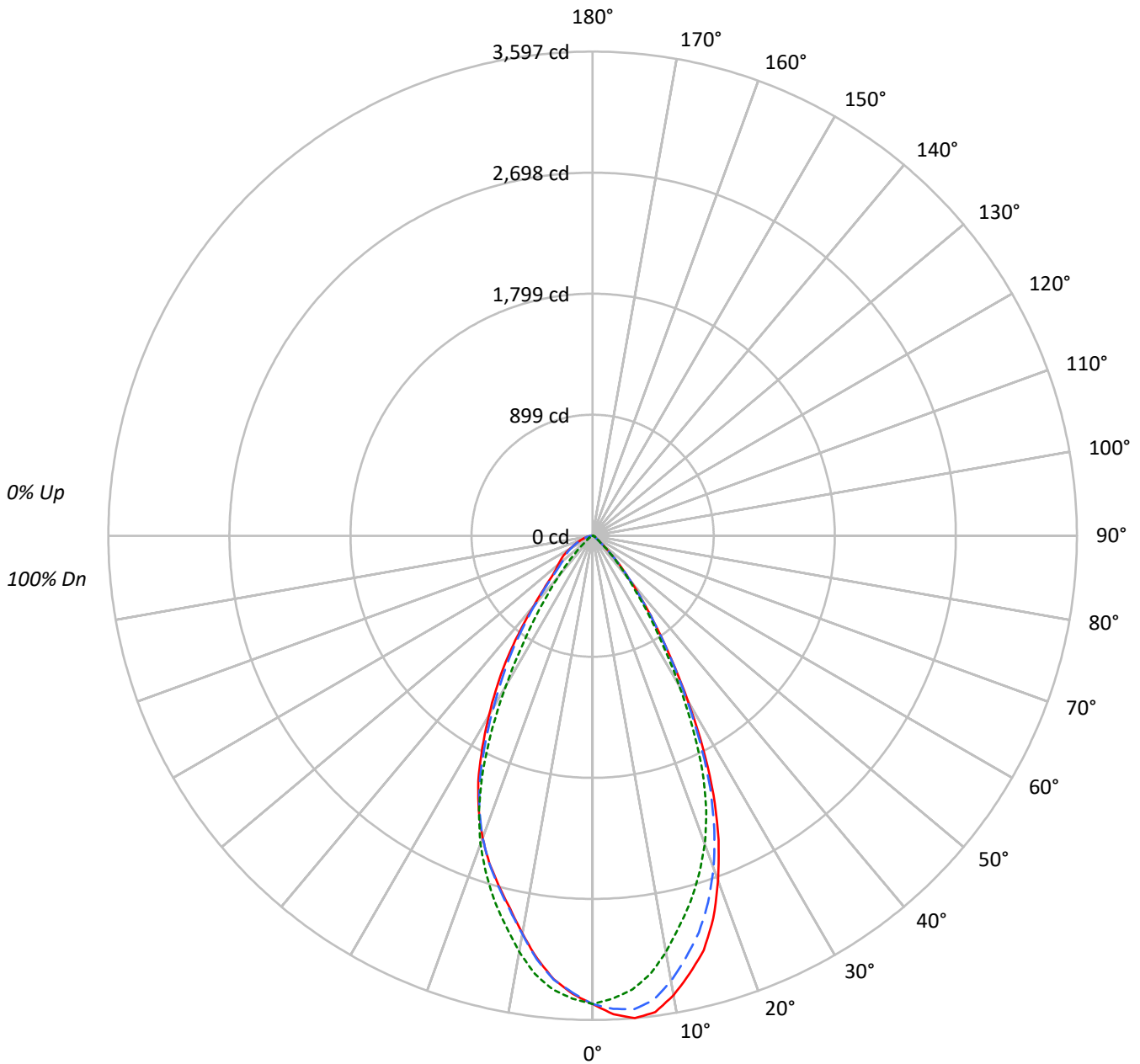
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2995.0 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92								
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85								
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78								
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73								
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67								
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63								
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59								
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55								
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52								
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	190703	190703	190703
5°	197952	186226	182016
10°	192888	174679	166992
15°	180903	159609	152714
20°	158815	142095	139376
25°	128445	116735	121549
30°	89299	81316	97274
35°	55038	49818	73415
40°	31144	27924	48756
45°	15126	14428	33275
50°	5757	5757	28289
55°	3154	3727	26102
60°	2302	2960	21391
65°	1946	2529	17525
70°	1683	2164	14426
75°	1589	2224	12391
80°	947	1894	8997
85°	943	3774	8491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.5	10.6
10°-20°	800.4	26.7
20°-30°	901.0	30.1
30°-40°	557.9	18.6
40°-50°	222.2	7.4
50°-60°	101.1	3.4
60°-70°	58.1	1.9
70°-80°	27.6	0.9
80°-90°	8.1	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°	2019.9	67.4
0°-40°	2577.8	86.1
0°-60°	2901.2	96.9
0°-90°	2995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3479	3479	3479	3479	3479	
5°	3597	3531	3384	3311	3308	339
15°	3188	3050	2812	2698	2691	882
25°	2124	2066	1930	1978	2010	955
35°	822	818	744	1037	1097	529
45°	195	195	186	405	429	165
55°	33	32	39	240	273	33
65°	15	14	20	134	135	15
75°	8	8	10	57	58	8
85°	2	2	6	14	14	1
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°	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7
2.5°	3558.2	3525.2	3517.7	3489.2	3441.1	3414.1	3397.6	3385.6	3406.6
5°	3597.2	3561.2	3531.2	3472.7	3384.1	3334.6	3310.6	3291.1	3307.6
7.5°	3568.7	3517.7	3477.2	3396.1	3283.6	3207.0	3174.0	3151.5	3166.5
10°	3465.1	3403.6	3357.1	3261.1	3138.0	3046.4	3005.9	2984.9	2999.9
12.5°	3330.1	3279.1	3208.5	3103.5	2971.4	2875.4	2845.4	2828.8	2834.8
15°	3187.5	3127.5	3049.5	2944.4	2812.3	2716.3	2698.3	2687.8	2690.8
17.5°	2980.4	2921.9	2854.4	2752.3	2630.8	2552.7	2552.7	2545.2	2549.7
20°	2722.3	2690.8	2624.7	2539.2	2435.7	2365.1	2387.6	2380.1	2389.1
22.5°	2443.2	2419.2	2362.1	2291.6	2204.5	2149.0	2198.5	2197.0	2209.1
25°	2123.5	2105.5	2066.5	2006.5	1929.9	1895.4	1977.9	1977.9	2009.5
27.5°	1770.8	1752.8	1725.8	1674.8	1611.8	1601.3	1722.8	1737.8	1772.3
30°	1410.7	1398.7	1383.7	1337.1	1284.6	1304.1	1472.2	1497.7	1536.7
32.5°	1089.5	1082.0	1077.5	1035.5	989.0	1053.5	1245.6	1278.6	1317.6
35°	822.4	805.9	817.9	786.4	744.4	825.4	1037.0	1065.5	1097.0
37.5°	606.3	594.3	604.8	582.3	544.8	633.3	832.9	850.9	871.9
40°	435.2	424.7	433.7	420.2	390.2	472.7	652.8	672.3	681.3
42.5°	309.1	291.1	300.1	289.6	274.6	355.7	513.2	531.3	534.3
45°	195.1	189.1	195.1	189.1	186.1	264.1	405.2	421.7	429.2
47.5°	118.6	111.1	111.1	108.1	111.1	195.1	334.7	358.7	370.7
50°	67.5	64.5	63.0	61.5	67.5	153.1	289.6	316.7	331.7
52.5°	45.0	43.5	43.5	42.0	49.5	129.1	261.1	285.1	300.1
55°	33.0	31.5	31.5	31.5	39.0	111.1	240.1	259.6	273.1
57.5°	25.5	25.5	25.5	24.0	33.0	94.5	214.6	225.1	235.6
60°	21.0	19.5	19.5	19.5	27.0	81.0	184.6	189.1	195.1
62.5°	16.5	16.5	16.5	16.5	22.5	72.0	159.1	159.1	162.1
65°	15.0	13.5	13.5	13.5	19.5	63.0	133.6	132.1	135.1
67.5°	12.0	12.0	12.0	12.0	16.5	54.0	109.6	108.1	111.1
70°	10.5	10.5	10.5	10.5	13.5	45.0	88.5	87.0	90.0
72.5°	9.0	9.0	9.0	9.0	12.0	37.5	70.5	70.5	72.0
75°	7.5	7.5	7.5	7.5	10.5	28.5	57.0	57.0	58.5
77.5°	6.0	6.0	6.0	6.0	7.5	22.5	43.5	42.0	42.0
80°	3.0	4.5	4.5	4.5	6.0	16.5	31.5	28.5	28.5
82.5°	1.5	3.0	3.0	3.0	6.0	12.0	21.0	19.5	19.5
85°	1.5	1.5	1.5	4.5	6.0	9.0	13.5	13.5	13.5
87.5°	0.0	1.5	3.0	6.0	7.5	7.5	9.0	7.5	7.5
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)