

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: P859494

Luminaire Tested: **LD4C70D010 EU4709040 4LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C70D010 EU4709040 4LBMDSWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

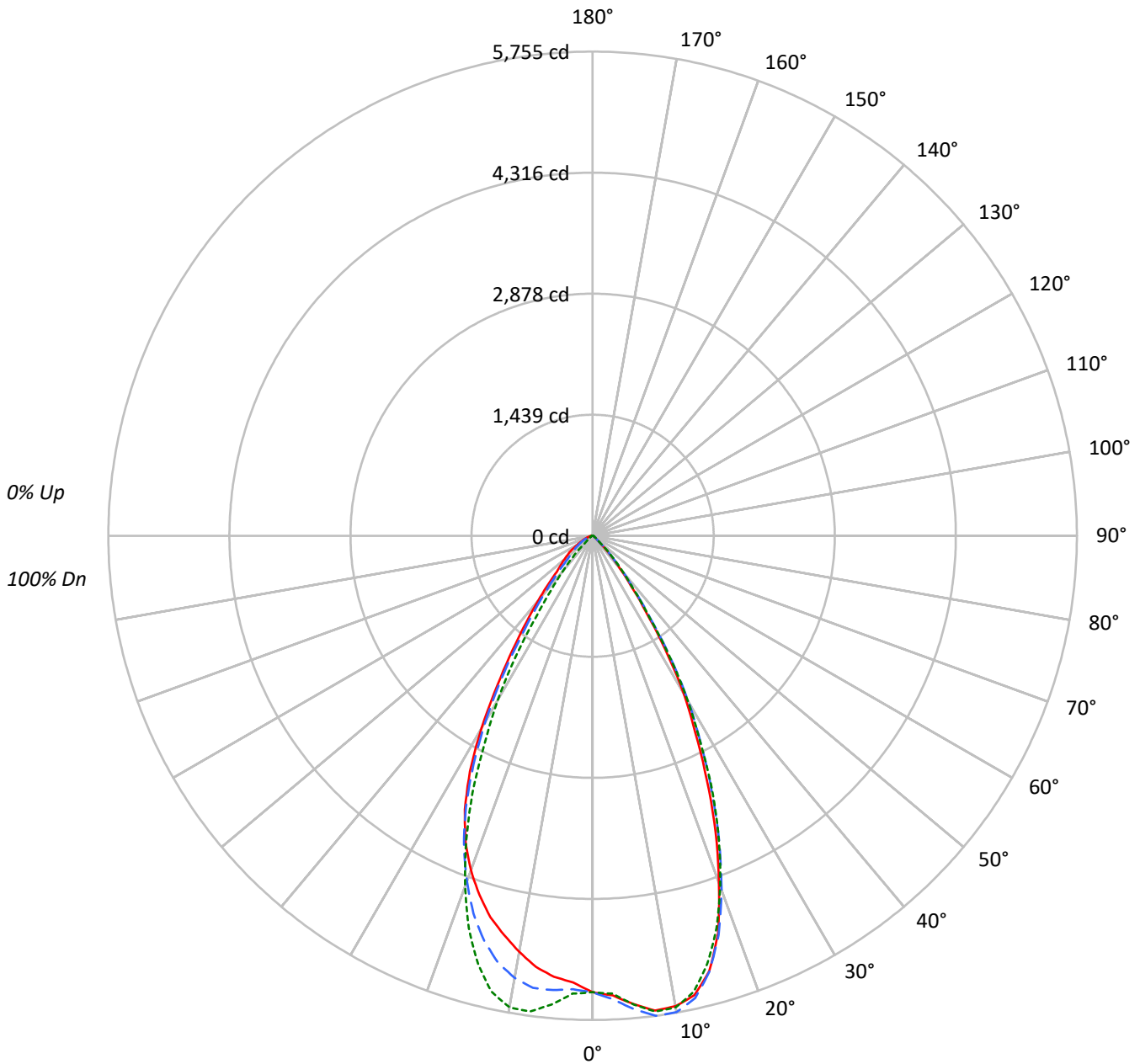
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4823.0 lumens  
Efficiency: N/A  
Efficacy: 61.8 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 78  
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

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

	0°	90°	180°
0°	666456	666456	666456
5°	689152	689609	648850
10°	708236	710082	626251
15°	681469	669654	596928
20°	573783	579130	552917
25°	435873	458023	486706
30°	306557	319197	374508
35°	165394	173193	247806
40°	79802	88125	160775
45°	28389	38710	104505
50°	10646	13474	83732
55°	7946	9553	69183
60°	6388	7297	50173
65°	5407	6483	38866
70°	3987	5352	30676
75°	3513	5269	22927
80°	2618	5235	15777
85°	0	5215	10431



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.2	11.0
10°-20°	1424.9	29.5
20°-30°	1545.7	32.0
30°-40°	857.6	17.8
40°-50°	273.1	5.7
50°-60°	110.1	2.3
60°-70°	55.7	1.2
70°-80°	23.0	0.5
80°-90°	4.8	0.1
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°	3498.7	72.5
0°-40°	4356.3	90.3
0°-60°	4739.5	98.3
0°-90°	4823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5425	5425	5425	5425	5425	
5°	5588	5648	5592	5421	5261	537
15°	5358	5362	5265	4983	4693	1465
25°	3216	3349	3379	3561	3590	1469
35°	1103	1192	1155	1526	1652	732
45°	163	193	223	498	602	157
55°	37	37	45	238	323	34
65°	19	19	22	108	134	18
75°	7	7	11	37	48	9
85°	0	0	4	7	7	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°	5424.8	5424.8	5424.8	5424.8	5424.8	5424.8	5424.8	5424.8	5424.8
2.5°	5469.3	5517.6	5513.9	5476.8	5447.1	5435.9	5395.1	5346.8	5313.4
5°	5588.2	5647.6	5647.6	5617.9	5591.9	5528.8	5421.1	5317.1	5261.4
7.5°	5692.1	5751.5	5755.3	5733.0	5703.3	5599.3	5421.1	5254.0	5168.6
10°	5677.3	5721.8	5747.8	5725.5	5692.1	5554.7	5335.7	5112.9	5020.1
12.5°	5591.9	5632.7	5629.0	5595.6	5551.0	5409.9	5194.6	4964.4	4860.4
15°	5358.0	5380.2	5361.7	5324.5	5265.1	5157.4	4982.9	4786.1	4693.3
17.5°	4953.2	4982.9	4975.5	4916.1	4893.8	4789.9	4708.2	4555.9	4474.2
20°	4388.8	4481.7	4481.7	4437.1	4429.7	4359.1	4370.3	4288.6	4229.2
22.5°	3820.7	3902.4	3928.4	3909.9	3924.7	3891.3	3995.3	3973.0	3943.3
25°	3215.5	3297.2	3349.2	3341.8	3378.9	3378.9	3560.8	3605.4	3590.5
27.5°	2647.4	2725.4	2784.8	2799.7	2777.4	2818.2	3067.0	3156.1	3156.1
30°	2161.0	2224.1	2279.8	2279.8	2250.1	2279.8	2543.5	2647.4	2640.0
32.5°	1611.5	1682.0	1734.0	1726.6	1700.6	1741.4	2019.9	2123.9	2097.9
35°	1102.8	1151.1	1191.9	1177.0	1154.8	1221.6	1526.1	1656.0	1652.3
37.5°	746.3	790.9	816.9	805.7	798.3	876.3	1154.8	1299.6	1292.1
40°	497.6	527.3	545.8	542.1	549.5	616.4	868.9	1002.5	1002.5
42.5°	315.6	334.2	352.7	352.7	371.3	441.9	660.9	776.0	776.0
45°	163.4	174.5	193.1	204.2	222.8	297.0	497.6	594.1	601.5
47.5°	78.0	81.7	89.1	92.8	107.7	185.7	382.4	486.4	508.7
50°	55.7	59.4	59.4	59.4	70.5	141.1	323.0	419.6	438.1
52.5°	44.6	44.6	44.6	48.3	55.7	118.8	278.5	363.9	378.7
55°	37.1	37.1	37.1	37.1	44.6	96.5	237.6	311.9	323.0
57.5°	29.7	29.7	29.7	29.7	37.1	78.0	196.8	248.8	252.5
60°	26.0	26.0	26.0	26.0	29.7	66.8	159.7	204.2	204.2
62.5°	22.3	22.3	22.3	22.3	26.0	55.7	133.7	167.1	163.4
65°	18.6	18.6	18.6	18.6	22.3	44.6	107.7	133.7	133.7
67.5°	14.9	14.9	14.9	14.9	18.6	37.1	85.4	107.7	107.7
70°	11.1	11.1	11.1	11.1	14.9	29.7	70.5	85.4	85.4
72.5°	11.1	11.1	11.1	11.1	11.1	22.3	52.0	66.8	63.1
75°	7.4	7.4	7.4	7.4	11.1	18.6	37.1	48.3	48.3
77.5°	7.4	7.4	7.4	7.4	7.4	14.9	29.7	33.4	33.4
80°	3.7	3.7	3.7	3.7	7.4	11.1	18.6	22.3	22.3
82.5°	0.0	3.7	0.0	3.7	3.7	7.4	14.9	14.9	14.9
85°	0.0	0.0	0.0	0.0	3.7	3.7	7.4	11.1	7.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.7	3.7	3.7	3.7
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)