

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: P859319

Luminaire Tested: **LD4C65D010 EU4659027 4LBMDSWH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C65D010 EU4659027 4LBMDSWH  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

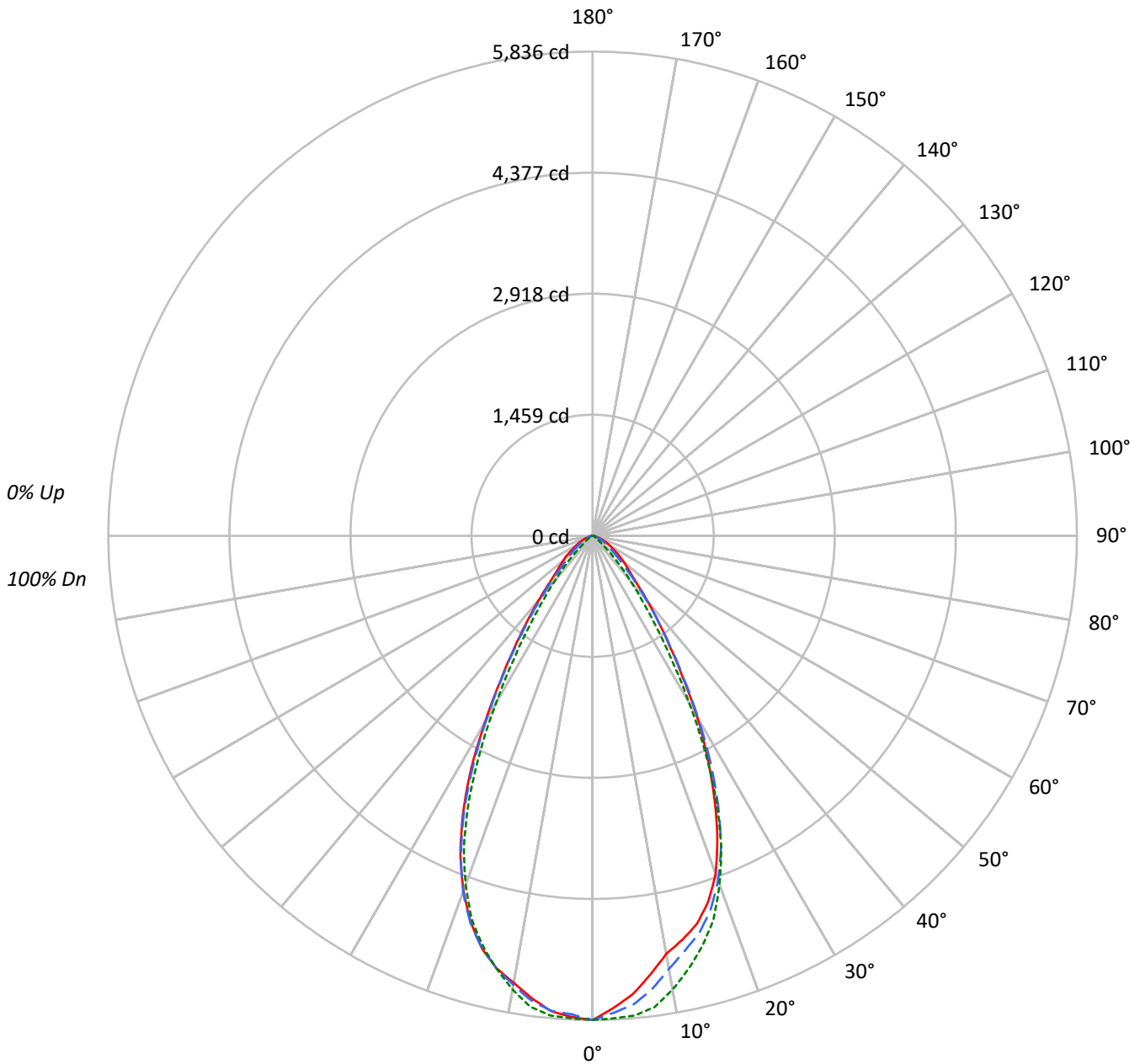
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5313.0 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.4  
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	110	107	105	111	108	105	103	104	102	100	100	99	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	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

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

	0°	90°	180°
0°	717010	717010	717010
5°	684170	715852	709180
10°	638114	692642	682525
15°	616197	650588	655167
20°	566814	584490	595093
25°	469789	478342	501549
30°	357385	330531	367613
35°	241972	198044	244672
40°	164784	113481	159732
45°	114322	57161	108050
50°	93021	23260	87001
55°	75287	14479	68540
60°	59805	11081	54252
65°	47151	9157	41918
70°	35597	8082	32364
75°	25680	6408	23544
80°	19102	6367	15918
85°	12686	6343	12686



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.6	10.1
10°-20°	1409.9	26.5
20°-30°	1617.6	30.4
30°-40°	982.7	18.5
40°-50°	421.1	7.9
50°-60°	202.0	3.8
60°-70°	98.2	1.8
70°-80°	36.4	0.7
80°-90°	8.4	0.2
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°	3564.1	67.1
0°-40°	4546.7	85.6
0°-60°	5169.9	97.3
0°-90°	5313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5313.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5836	5836	5836	5836	5836	
5°	5548	5670	5805	5746	5751	515
15°	4845	4957	5115	5147	5151	1349
25°	3466	3578	3529	3664	3700	1572
35°	1613	1636	1320	1595	1631	1034
45°	658	586	329	527	622	535
55°	352	261	68	234	320	317
65°	162	108	32	99	144	165
75°	54	36	14	32	50	59
85°	9	9	4	4	9	12
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°	5836.3	5836.3	5836.3	5836.3	5836.3	5836.3	5836.3	5836.3	5836.3
2.5°	5696.5	5759.6	5755.1	5809.2	5822.7	5809.2	5773.2	5809.2	5804.7
5°	5547.8	5619.9	5669.5	5759.6	5804.7	5795.7	5746.1	5755.1	5750.6
7.5°	5331.5	5421.6	5507.3	5642.5	5728.1	5723.6	5651.5	5638.0	5619.9
10°	5115.2	5200.8	5299.9	5439.7	5552.3	5570.4	5498.2	5480.2	5471.2
12.5°	4989.0	5056.6	5124.2	5245.9	5345.0	5381.1	5340.5	5345.0	5340.5
15°	4844.8	4912.4	4957.4	5047.6	5115.2	5164.7	5146.7	5173.8	5151.2
17.5°	4628.4	4709.6	4727.6	4795.2	4844.8	4876.3	4894.3	4921.4	4885.3
20°	4335.5	4398.6	4421.1	4448.2	4470.7	4511.3	4565.3	4592.4	4551.8
22.5°	3925.4	4047.1	4042.6	4029.0	4051.6	4065.1	4150.7	4195.8	4164.2
25°	3465.7	3591.9	3578.4	3524.3	3528.8	3555.8	3664.0	3722.6	3700.0
27.5°	2983.5	3100.7	3069.1	2965.4	2938.4	2979.0	3118.7	3186.3	3172.8
30°	2519.3	2595.9	2546.3	2361.5	2330.0	2379.6	2559.8	2627.4	2591.4
32.5°	2019.0	2077.6	2055.1	1829.7	1775.7	1825.2	2037.1	2100.1	2059.6
35°	1613.4	1667.5	1636.0	1370.1	1320.5	1374.6	1595.4	1667.5	1631.4
37.5°	1293.4	1334.0	1293.4	1009.5	964.4	1018.5	1230.3	1325.0	1279.9
40°	1027.5	1059.1	1005.0	743.6	707.6	734.6	932.9	1027.5	996.0
42.5°	811.2	833.8	775.2	545.3	504.8	540.8	703.1	788.7	770.7
45°	658.0	658.0	585.9	378.6	329.0	365.0	527.3	617.4	621.9
47.5°	563.3	549.8	459.7	252.4	189.3	238.9	419.1	513.8	527.3
50°	486.7	468.7	378.6	184.8	121.7	171.3	347.0	441.7	455.2
52.5°	419.1	405.6	315.5	144.2	85.6	130.7	292.9	383.1	396.6
55°	351.5	342.5	261.4	112.7	67.6	99.1	234.4	311.0	320.0
57.5°	288.4	274.9	211.8	94.6	54.1	81.1	193.8	256.9	265.9
60°	243.4	229.8	171.3	76.6	45.1	63.1	157.7	211.8	220.8
62.5°	202.8	189.3	139.7	63.1	36.1	54.1	126.2	171.3	180.3
65°	162.2	153.2	108.2	49.6	31.5	40.6	99.1	135.2	144.2
67.5°	130.7	121.7	85.6	40.6	27.0	31.5	76.6	108.2	117.2
70°	99.1	90.1	63.1	31.5	22.5	27.0	58.6	81.1	90.1
72.5°	72.1	67.6	49.6	27.0	18.0	22.5	40.6	58.6	67.6
75°	54.1	49.6	36.1	18.0	13.5	18.0	31.5	45.1	49.6
77.5°	36.1	36.1	27.0	13.5	13.5	13.5	22.5	31.5	31.5
80°	27.0	22.5	18.0	9.0	9.0	9.0	13.5	22.5	22.5
82.5°	18.0	13.5	13.5	9.0	9.0	9.0	9.0	13.5	13.5
85°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	9.0	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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)