

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: P859338

Luminaire Tested: **LD4C65D010 EU4659030 4LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859338  
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 EU4659030 4LBMDDWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

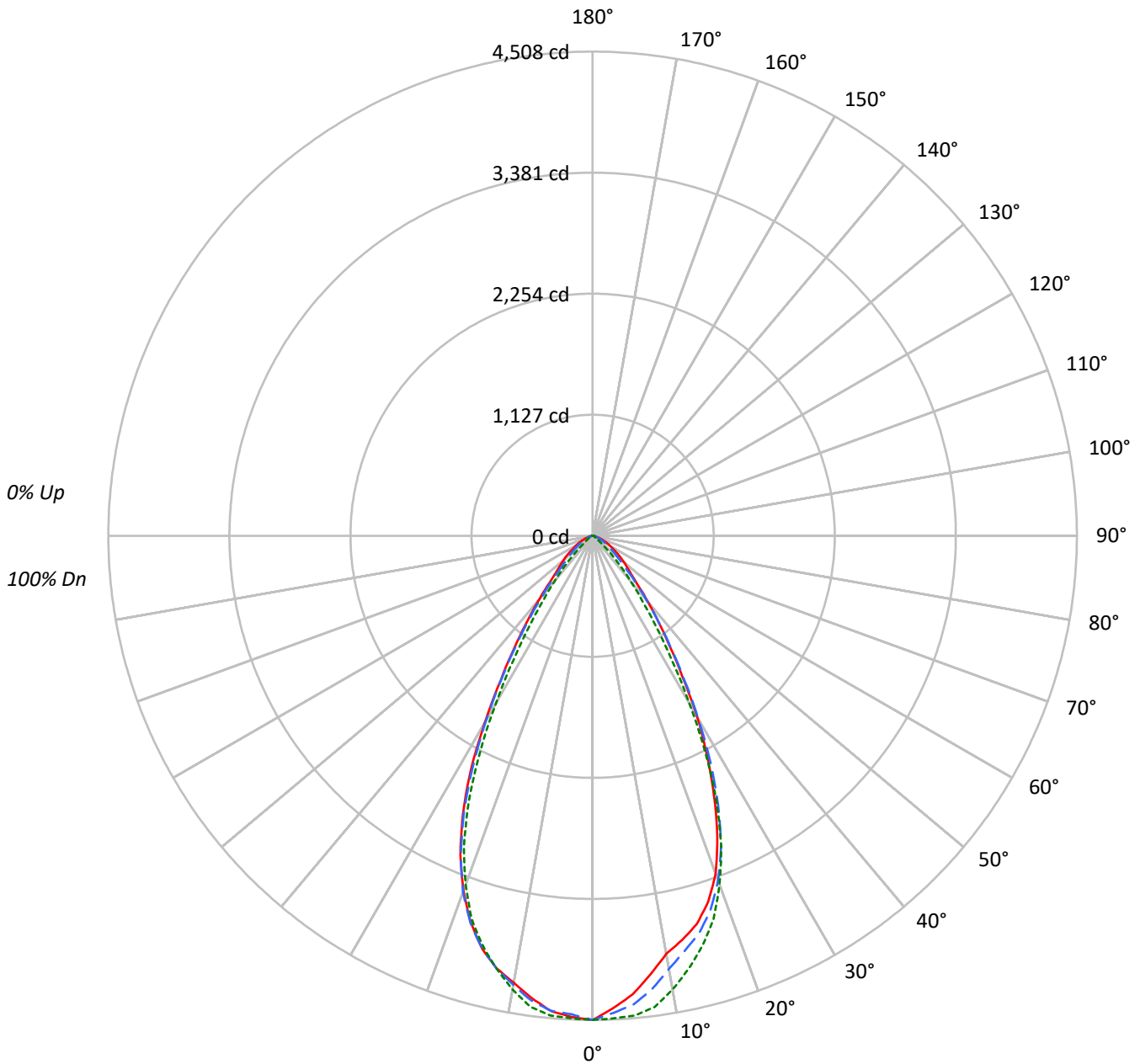
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4104.0 lumens  
Efficiency: N/A  
Efficacy: 56.7 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°	553848	553848	553848
5°	528487	552955	547800
10°	492907	535035	527213
15°	475973	502542	506078
20°	437828	451490	459675
25°	362891	369493	387426
30°	276058	255318	283959
35°	186916	152976	189000
40°	127289	87660	123392
45°	88313	44148	83465
50°	71863	17966	67200
55°	58152	11181	52947
60°	46193	8551	41918
65°	36424	7093	32384
70°	27515	6250	25000
75°	19841	4937	18180
80°	14786	4952	12310
85°	9867	4934	9867



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.5	10.1
10°-20°	1089.0	26.5
20°-30°	1249.5	30.4
30°-40°	759.1	18.5
40°-50°	325.3	7.9
50°-60°	156.1	3.8
60°-70°	75.9	1.8
70°-80°	28.1	0.7
80°-90°	6.5	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°	2753.0	67.1
0°-40°	3512.1	85.6
0°-60°	3993.5	97.3
0°-90°	4104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4508	4508	4508	4508	4508	
5°	4285	4379	4484	4439	4442	398
15°	3742	3829	3951	3976	3979	1042
25°	2677	2764	2726	2830	2858	1214
35°	1246	1264	1020	1232	1260	799
45°	508	453	254	407	480	413
55°	272	202	52	181	247	245
65°	125	84	24	77	111	127
75°	42	28	10	24	38	46
85°	7	7	4	4	7	9
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°	4508.2	4508.2	4508.2	4508.2	4508.2	4508.2	4508.2	4508.2	4508.2
2.5°	4400.3	4449.0	4445.5	4487.3	4497.7	4487.3	4459.4	4487.3	4483.8
5°	4285.4	4341.1	4379.4	4449.0	4483.8	4476.9	4438.6	4445.5	4442.0
7.5°	4118.3	4187.9	4254.1	4358.5	4424.6	4421.2	4365.5	4355.0	4341.1
10°	3951.2	4017.3	4093.9	4201.8	4288.9	4302.8	4247.1	4233.2	4226.2
12.5°	3853.7	3905.9	3958.2	4052.1	4128.7	4156.6	4125.2	4128.7	4125.2
15°	3742.3	3794.5	3829.3	3899.0	3951.2	3989.5	3975.6	3996.4	3979.0
17.5°	3575.2	3637.9	3651.8	3704.0	3742.3	3766.7	3780.6	3801.5	3773.6
20°	3348.9	3397.7	3415.1	3436.0	3453.4	3484.7	3526.5	3547.4	3516.0
22.5°	3032.1	3126.1	3122.7	3112.2	3129.6	3140.1	3206.2	3241.0	3216.7
25°	2677.1	2774.5	2764.1	2722.3	2725.8	2746.7	2830.2	2875.5	2858.1
27.5°	2304.6	2395.1	2370.7	2290.6	2269.8	2301.1	2409.0	2461.2	2450.8
30°	1946.0	2005.2	1966.9	1824.2	1799.8	1838.1	1977.3	2029.6	2001.7
32.5°	1559.6	1604.8	1587.4	1413.4	1371.6	1409.9	1573.5	1622.3	1590.9
35°	1246.3	1288.1	1263.7	1058.3	1020.0	1061.8	1232.4	1288.1	1260.2
37.5°	999.1	1030.4	999.1	779.8	745.0	786.8	950.4	1023.5	988.7
40°	793.7	818.1	776.3	574.4	546.6	567.4	720.6	793.7	769.4
42.5°	626.6	644.0	598.8	421.2	389.9	417.7	543.1	609.2	595.3
45°	508.3	508.3	452.6	292.4	254.1	282.0	407.3	476.9	480.4
47.5°	435.2	424.7	355.1	194.9	146.2	184.5	323.8	396.9	407.3
50°	376.0	362.0	292.4	142.7	94.0	132.3	268.1	341.2	351.6
52.5°	323.8	313.3	243.7	111.4	66.1	101.0	226.3	295.9	306.3
55°	271.5	264.6	201.9	87.0	52.2	76.6	181.0	240.2	247.2
57.5°	222.8	212.4	163.6	73.1	41.8	62.7	149.7	198.4	205.4
60°	188.0	177.5	132.3	59.2	34.8	48.7	121.8	163.6	170.6
62.5°	156.7	146.2	107.9	48.7	27.8	41.8	97.5	132.3	139.2
65°	125.3	118.4	83.5	38.3	24.4	31.3	76.6	104.4	111.4
67.5°	101.0	94.0	66.1	31.3	20.9	24.4	59.2	83.5	90.5
70°	76.6	69.6	48.7	24.4	17.4	20.9	45.3	62.7	69.6
72.5°	55.7	52.2	38.3	20.9	13.9	17.4	31.3	45.3	52.2
75°	41.8	38.3	27.8	13.9	10.4	13.9	24.4	34.8	38.3
77.5°	27.8	27.8	20.9	10.4	10.4	10.4	17.4	24.4	24.4
80°	20.9	17.4	13.9	7.0	7.0	7.0	10.4	17.4	17.4
82.5°	13.9	10.4	10.4	7.0	7.0	7.0	7.0	10.4	10.4
85°	7.0	7.0	7.0	3.5	3.5	3.5	3.5	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)