

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: P#

Luminaire Tested: **LD4C90D010 EX4C909050 4LCSQWLI**

Issue Date: 2/18/2022



**Test Information**

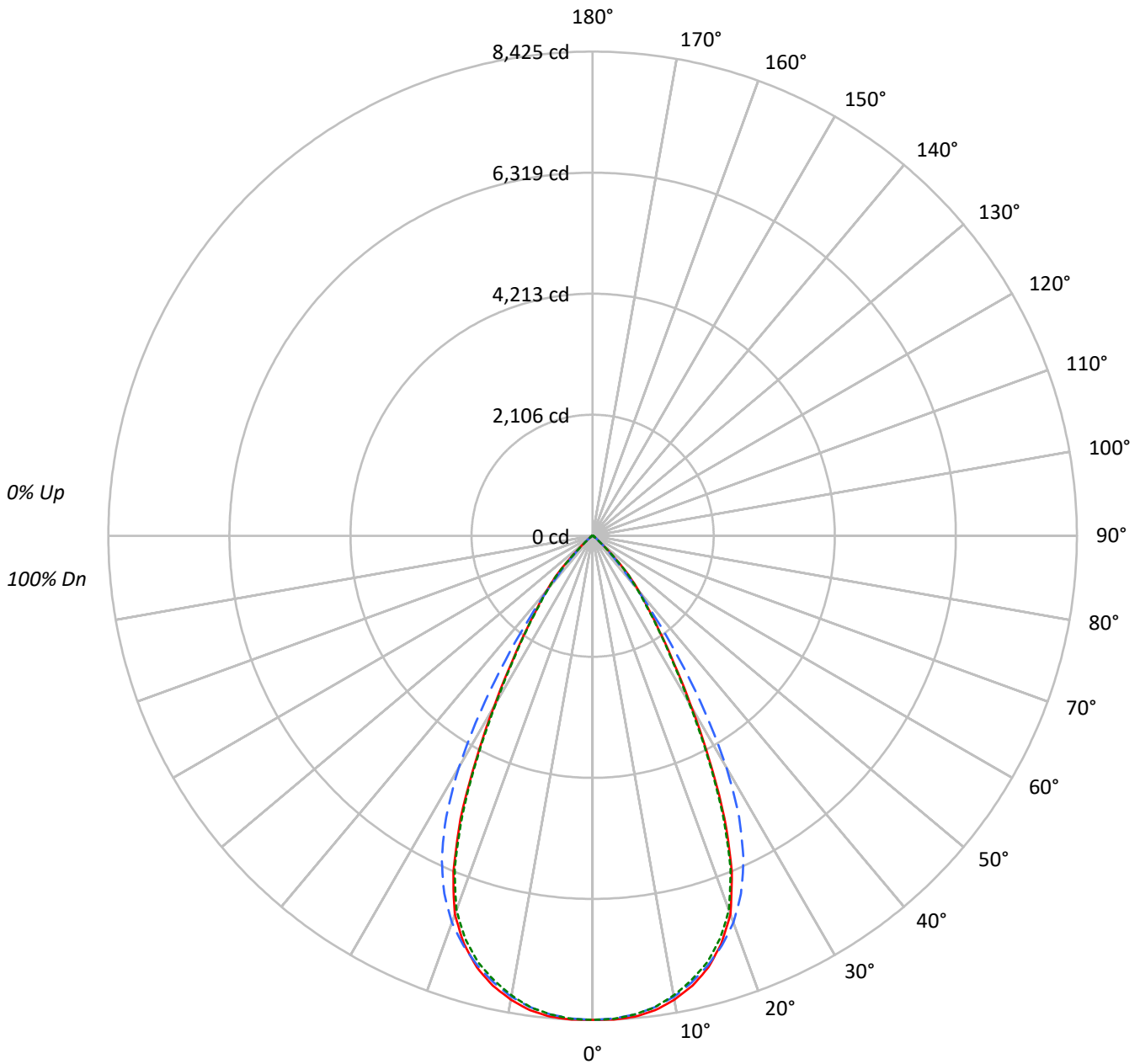
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C90D010 EX4C909050 4LCSQWLI  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7541.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 97.1  
Input Voltage (V):  
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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

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

	0°	45°	90°
0°	812765	812765	812765
5°	813622	809874	809874
10°	802935	798192	795733
15°	776875	773199	767985
20°	719488	735178	711530
25°	578492	661310	570869
30°	381822	518518	372775
35°	238645	311357	234322
40°	155746	144297	149650
45°	74996	57557	70766
50°	18884	22952	17713
55°	10413	9437	10093
60°	7102	5982	6716
65°	4863	4429	4863
70°	3809	3273	3809
75°	2871	2871	2871
80°	2167	3223	3223
85°	2103	4318	4318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	792.2	10.5
10°-20°	2163.3	28.7
20°-30°	2578.1	34.2
30°-40°	1459.8	19.4
40°-50°	451.3	6.0
50°-60°	62.7	0.8
60°-70°	21.4	0.3
70°-80°	8.5	0.1
80°-90°	3.6	0.0
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°	5533.6	73.4
0°-40°	6993.5	92.7
0°-60°	7507.5	99.6
0°-90°	7541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8423	8423	8423	8423	8423	
5°	8400	8381	8362	8356	8362	795
15°	7777	7764	7740	7709	7688	2169
25°	5434	5751	6212	5761	5362	2423
35°	2026	2210	2643	2216	1989	1319
45°	550	640	422	623	519	454
55°	62	62	56	60	60	61
65°	21	21	19	21	21	22
75°	8	8	8	8	8	8
85°	2	4	4	4	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8423.4	8423.4	8423.4	8423.4	8423.4
2.5°	8425.4	8411.8	8408.0	8404.1	8411.8
5°	8400.2	8380.9	8361.5	8355.7	8361.5
7.5°	8328.6	8309.3	8276.4	8268.6	8274.4
10°	8195.1	8177.7	8146.7	8129.3	8121.6
12.5°	8019.0	7990.0	7960.9	7941.6	7922.2
15°	7777.1	7763.6	7740.3	7709.4	7688.1
17.5°	7442.3	7461.7	7475.2	7413.3	7357.2
20°	7007.0	7078.6	7159.8	7034.0	6929.5
22.5°	6327.7	6532.9	6739.9	6501.9	6269.7
25°	5433.7	5751.1	6211.6	5760.8	5362.1
27.5°	4390.7	4793.2	5518.9	4795.1	4332.7
30°	3427.0	3841.1	4653.9	3787.0	3345.8
32.5°	2631.7	2941.3	3636.0	2894.9	2575.6
35°	2026.0	2209.9	2643.3	2215.7	1989.3
37.5°	1575.2	1668.0	1778.3	1635.1	1528.7
40°	1236.5	1240.4	1145.6	1221.0	1188.1
42.5°	917.2	913.4	704.4	890.1	895.9
45°	549.6	640.5	421.8	623.1	518.6
47.5°	261.2	361.9	253.5	342.5	241.9
50°	125.8	174.2	152.9	162.5	118.0
52.5°	85.1	89.0	87.1	85.1	81.3
55°	61.9	61.9	56.1	60.0	60.0
57.5°	46.4	46.4	40.6	44.5	44.5
60°	36.8	34.8	31.0	34.8	34.8
62.5°	27.1	27.1	23.2	27.1	27.1
65°	21.3	21.3	19.4	21.3	21.3
67.5°	17.4	17.4	13.5	17.4	15.5
70°	13.5	13.5	11.6	13.5	13.5
72.5°	9.7	9.7	9.7	9.7	9.7
75°	7.7	7.7	7.7	7.7	7.7
77.5°	5.8	5.8	5.8	5.8	5.8
80°	3.9	3.9	5.8	5.8	5.8
82.5°	3.9	3.9	3.9	3.9	3.9
85°	1.9	3.9	3.9	3.9	3.9
87.5°	1.9	1.9	3.9	3.9	3.9
90°	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)