

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 EX4C909035 4LCSQWLI**

Issue Date: 2/18/2022

**Test Information**

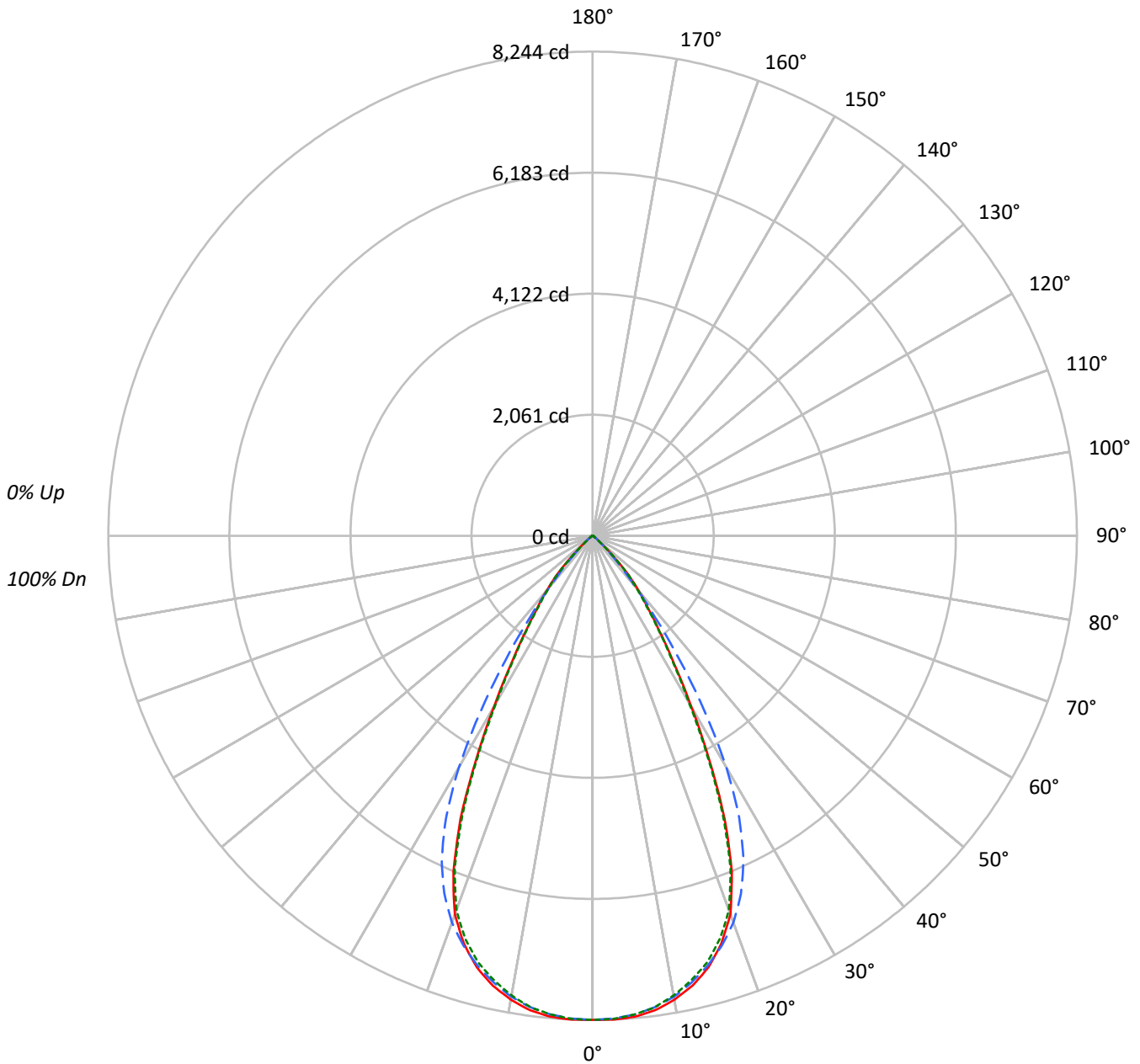
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C90D010 EX4C909035 4LCSQWLI  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7379.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 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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CATALOG NUMBER: LD4C90D010 EX4C909035 4LCSQWLI

### 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°	795310	795310	795310
5°	796149	792478	792478
10°	785681	781046	778636
15°	760183	756597	751482
20°	704024	719385	696251
25°	566068	647108	558604
30°	373622	507376	364764
35°	233521	304667	229281
40°	152408	141198	146438
45°	73386	56329	69251
50°	18479	22456	17338
55°	10194	9235	9875
60°	6947	5847	6581
65°	4749	4315	4749
70°	3752	3216	3752
75°	2833	2833	2833
80°	2111	3167	3167
85°	2103	4207	4207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.2	10.5
10°-20°	2116.9	28.7
20°-30°	2522.7	34.2
30°-40°	1428.5	19.4
40°-50°	441.6	6.0
50°-60°	61.4	0.8
60°-70°	20.9	0.3
70°-80°	8.4	0.1
80°-90°	3.5	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°	5414.7	73.4
0°-40°	6843.2	92.7
0°-60°	7346.2	99.6
0°-90°	7379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7379.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8242	8242	8242	8242	8242	
5°	8220	8201	8182	8176	8182	778
15°	7610	7597	7574	7544	7523	2122
25°	5317	5628	6078	5637	5247	2371
35°	1982	2162	2586	2168	1946	1290
45°	538	627	413	610	508	444
55°	61	61	55	59	59	60
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°	8242.5	8242.5	8242.5	8242.5	8242.5
2.5°	8244.4	8231.1	8227.3	8223.5	8231.1
5°	8219.8	8200.8	8181.9	8176.2	8181.9
7.5°	8149.7	8130.8	8098.6	8091.0	8096.7
10°	8019.0	8002.0	7971.7	7954.7	7947.1
12.5°	7846.7	7818.3	7789.9	7771.0	7752.1
15°	7610.0	7596.8	7574.1	7543.8	7522.9
17.5°	7282.5	7301.4	7314.7	7254.1	7199.2
20°	6856.4	6926.5	7006.0	6882.9	6780.7
22.5°	6191.8	6392.5	6595.1	6362.2	6135.0
25°	5317.0	5627.5	6078.2	5637.0	5246.9
27.5°	4296.4	4690.2	5400.3	4692.1	4239.6
30°	3353.4	3758.6	4553.9	3705.6	3273.9
32.5°	2575.2	2878.1	3557.9	2832.7	2520.3
35°	1982.5	2162.4	2586.5	2168.1	1946.5
37.5°	1541.3	1632.2	1740.1	1600.0	1495.9
40°	1210.0	1213.7	1121.0	1194.8	1162.6
42.5°	897.5	893.7	689.2	871.0	876.7
45°	537.8	626.8	412.8	609.7	507.5
47.5°	255.6	354.1	248.1	335.2	236.7
50°	123.1	170.4	149.6	159.1	115.5
52.5°	83.3	87.1	85.2	83.3	79.5
55°	60.6	60.6	54.9	58.7	58.7
57.5°	45.4	45.4	39.8	43.6	43.6
60°	36.0	34.1	30.3	34.1	34.1
62.5°	26.5	26.5	22.7	26.5	26.5
65°	20.8	20.8	18.9	20.8	20.8
67.5°	17.0	17.0	13.3	17.0	15.1
70°	13.3	13.3	11.4	13.3	13.3
72.5°	9.5	9.5	9.5	9.5	9.5
75°	7.6	7.6	7.6	7.6	7.6
77.5°	5.7	5.7	5.7	5.7	5.7
80°	3.8	3.8	5.7	5.7	5.7
82.5°	3.8	3.8	3.8	3.8	3.8
85°	1.9	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	3.8	3.8	3.8
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)