

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 EX4C909030 4LCSQWH**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C90D010 EX4C909030 4LCSQWH  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

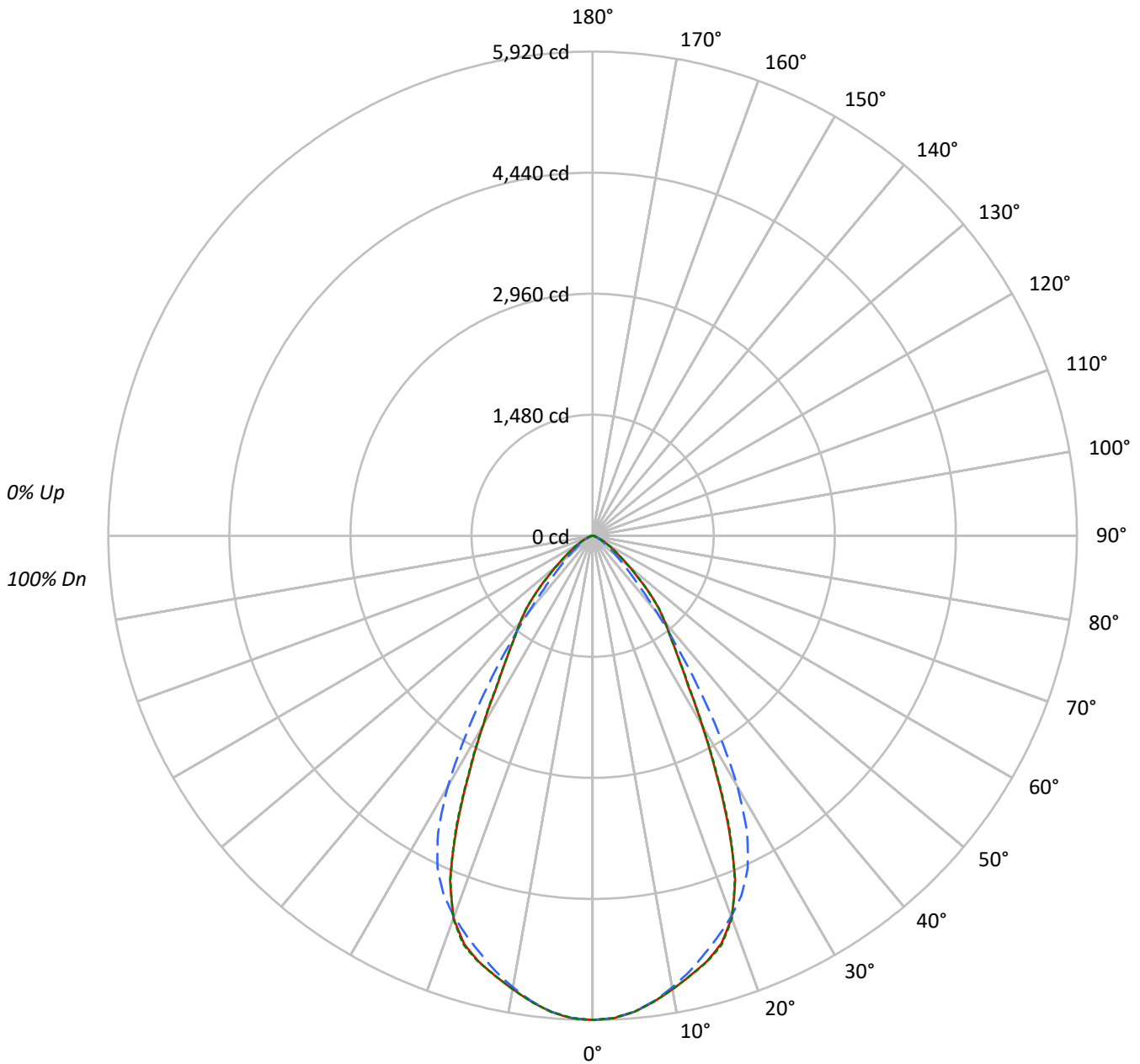
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6266.0 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94  
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 (Ain): 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	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

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

	0°	45°	90°
0°	571234	571234	571234
5°	565996	565638	565822
10°	551505	549310	551505
15°	538232	528532	538791
20°	510316	508396	511271
25°	418605	477639	420787
30°	298494	394601	298906
35°	215299	261473	215958
40°	172612	151917	172612
45°	131707	88655	130697
50°	86884	56607	86599
55°	58424	38002	57785
60°	39271	25936	39638
65°	26850	18333	26439
70°	17914	13175	17914
75°	11818	9730	11818
80°	8279	7279	8279
85°	6200	6200	6200



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.3	8.8
10°-20°	1500.6	23.9
20°-30°	1876.0	29.9
30°-40°	1262.0	20.1
40°-50°	666.4	10.6
50°-60°	270.8	4.3
60°-70°	100.4	1.6
70°-80°	32.4	0.5
80°-90°	7.0	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°	3926.9	62.7
0°-40°	5188.9	82.8
0°-60°	6126.1	97.8
0°-90°	6266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5920	5920	5920	5920	5920	
5°	5844	5838	5840	5840	5842	551
15°	5388	5343	5291	5341	5394	1509
25°	3932	4152	4486	4160	3952	1770
35°	1828	1919	2220	1923	1833	1176
45°	965	917	650	913	958	740
55°	347	291	226	291	344	322
65°	118	95	80	95	116	121
75°	32	28	26	28	32	37
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5920.2	5920.2	5920.2	5920.2	5920.2
2.5°	5905.3	5901.5	5899.7	5899.7	5901.5
5°	5843.6	5838.0	5839.9	5839.9	5841.8
7.5°	5744.7	5742.8	5737.2	5744.7	5744.7
10°	5628.9	5619.6	5606.5	5621.5	5628.9
12.5°	5509.5	5481.5	5459.0	5481.5	5509.5
15°	5388.1	5343.3	5291.0	5341.4	5393.7
17.5°	5229.4	5184.6	5126.7	5193.9	5244.3
20°	4969.9	4973.6	4951.2	4969.9	4979.2
22.5°	4553.6	4637.6	4755.2	4639.4	4540.5
25°	3931.9	4152.2	4486.4	4159.6	3952.4
27.5°	3265.3	3545.4	4092.4	3562.2	3285.9
30°	2679.1	2927.4	3541.7	2944.2	2682.8
32.5°	2169.4	2354.3	2878.9	2376.7	2193.7
35°	1827.8	1919.3	2219.8	1923.0	1833.4
37.5°	1566.4	1566.4	1648.5	1573.9	1558.9
40°	1370.4	1310.6	1206.1	1308.8	1370.4
42.5°	1187.4	1097.8	875.6	1094.0	1191.1
45°	965.2	916.7	649.7	913.0	957.8
47.5°	741.2	707.6	489.1	703.9	746.8
50°	578.8	526.5	377.1	522.8	576.9
52.5°	444.3	388.3	291.2	388.3	440.6
55°	347.3	291.2	225.9	291.2	343.5
57.5°	267.0	222.2	171.8	218.4	265.1
60°	203.5	166.2	134.4	166.2	205.4
62.5°	155.0	127.0	102.7	125.1	153.1
65°	117.6	95.2	80.3	95.2	115.8
67.5°	85.9	70.9	61.6	70.9	87.7
70°	63.5	54.1	46.7	52.3	63.5
72.5°	46.7	39.2	35.5	39.2	46.7
75°	31.7	28.0	26.1	28.0	31.7
77.5°	22.4	20.5	18.7	20.5	22.4
80°	14.9	13.1	13.1	14.9	14.9
82.5°	9.3	9.3	9.3	9.3	9.3
85°	5.6	5.6	5.6	5.6	5.6
87.5°	3.7	3.7	3.7	3.7	3.7
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)