

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: **LD4C80D010 EX4C809030 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: LD4C80D010 EX4C809030 4LCSQWH  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

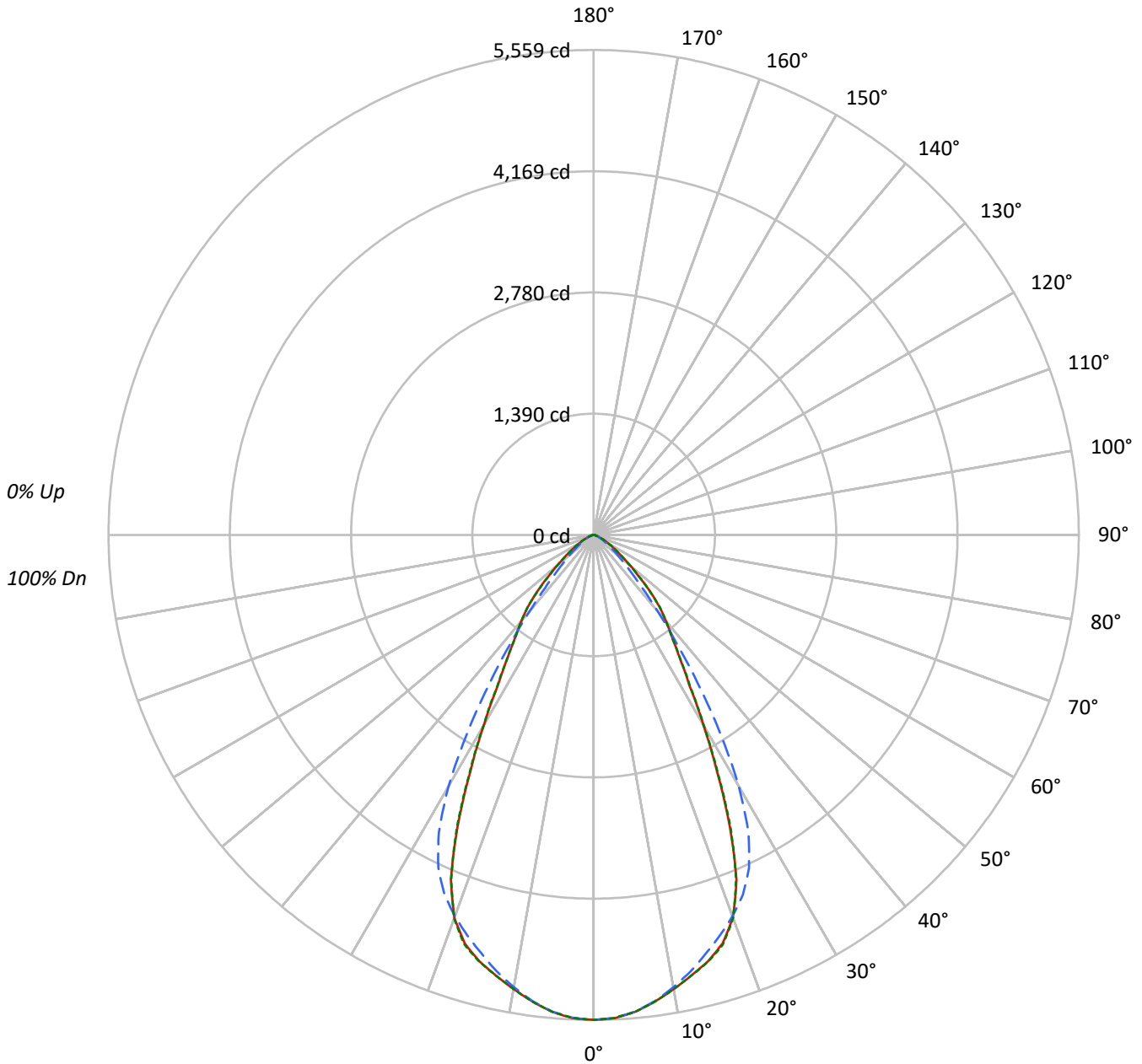
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5884.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 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): 89.5  
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

TEST NUMBER: P#  
CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWH

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWH

**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°	536411	536411	536411
5°	531496	531157	531321
10°	517889	515822	517889
15°	505417	496317	505946
20°	479204	477407	480107
25°	393085	448510	395129
30°	280300	370535	280690
35°	202165	245536	202789
40°	162082	142647	162082
45°	123684	83252	122728
50°	81585	53154	81315
55°	54858	35680	54269
60°	36878	24354	37206
65°	25206	17215	24818
70°	16814	12357	16814
75°	11110	9134	11110
80°	7779	6835	7779
85°	5868	5868	5868



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.8	8.8
10°-20°	1409.1	23.9
20°-30°	1761.6	29.9
30°-40°	1185.1	20.1
40°-50°	625.7	10.6
50°-60°	254.3	4.3
60°-70°	94.3	1.6
70°-80°	30.4	0.5
80°-90°	6.6	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°	3687.5	62.7
0°-40°	4872.6	82.8
0°-60°	5752.7	97.8
0°-90°	5884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5559	5559	5559	5559	5559	
5°	5487	5482	5484	5484	5486	517
15°	5060	5018	4968	5016	5065	1417
25°	3692	3899	4213	3906	3711	1662
35°	1716	1802	2084	1806	1722	1104
45°	906	861	610	857	899	695
55°	326	274	212	274	323	302
65°	110	89	75	89	109	114
75°	30	26	24	26	30	35
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LCSQWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5559.3	5559.3	5559.3	5559.3	5559.3
2.5°	5545.2	5541.7	5540.0	5540.0	5541.7
5°	5487.4	5482.1	5483.9	5483.9	5485.6
7.5°	5394.5	5392.7	5387.5	5394.5	5394.5
10°	5285.8	5277.0	5264.7	5278.8	5285.8
12.5°	5173.6	5147.3	5126.2	5147.3	5173.6
15°	5059.6	5017.5	4968.5	5015.8	5064.9
17.5°	4910.6	4868.5	4814.2	4877.3	4924.6
20°	4666.9	4670.4	4649.4	4666.9	4675.7
22.5°	4276.0	4354.9	4465.3	4356.6	4263.7
25°	3692.2	3899.0	4212.8	3906.0	3711.4
27.5°	3066.3	3329.3	3842.9	3345.0	3085.6
30°	2515.8	2749.0	3325.7	2764.7	2519.3
32.5°	2037.2	2210.7	2703.4	2231.8	2060.0
35°	1716.3	1802.2	2084.5	1805.8	1721.6
37.5°	1470.9	1470.9	1548.0	1477.9	1463.9
40°	1286.8	1230.7	1132.5	1229.0	1286.8
42.5°	1115.0	1030.9	822.2	1027.4	1118.5
45°	906.4	860.8	610.1	857.3	899.4
47.5°	696.0	664.4	459.3	660.9	701.3
50°	543.5	494.4	354.1	490.9	541.7
52.5°	417.3	364.7	273.5	364.7	413.7
55°	326.1	273.5	212.1	273.5	322.6
57.5°	250.7	208.6	161.3	205.1	248.9
60°	191.1	156.0	126.2	156.0	192.8
62.5°	145.5	119.2	96.4	117.5	143.8
65°	110.4	89.4	75.4	89.4	108.7
67.5°	80.6	66.6	57.9	66.6	82.4
70°	59.6	50.8	43.8	49.1	59.6
72.5°	43.8	36.8	33.3	36.8	43.8
75°	29.8	26.3	24.5	26.3	29.8
77.5°	21.0	19.3	17.5	19.3	21.0
80°	14.0	12.3	12.3	14.0	14.0
82.5°	8.8	8.8	8.8	8.8	8.8
85°	5.3	5.3	5.3	5.3	5.3
87.5°	3.5	3.5	3.5	3.5	3.5
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)