

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: **LD4C65D010 EX4C659030 4LCSQWLI**

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 (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C65D010 EX4C659030 4LCSQWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

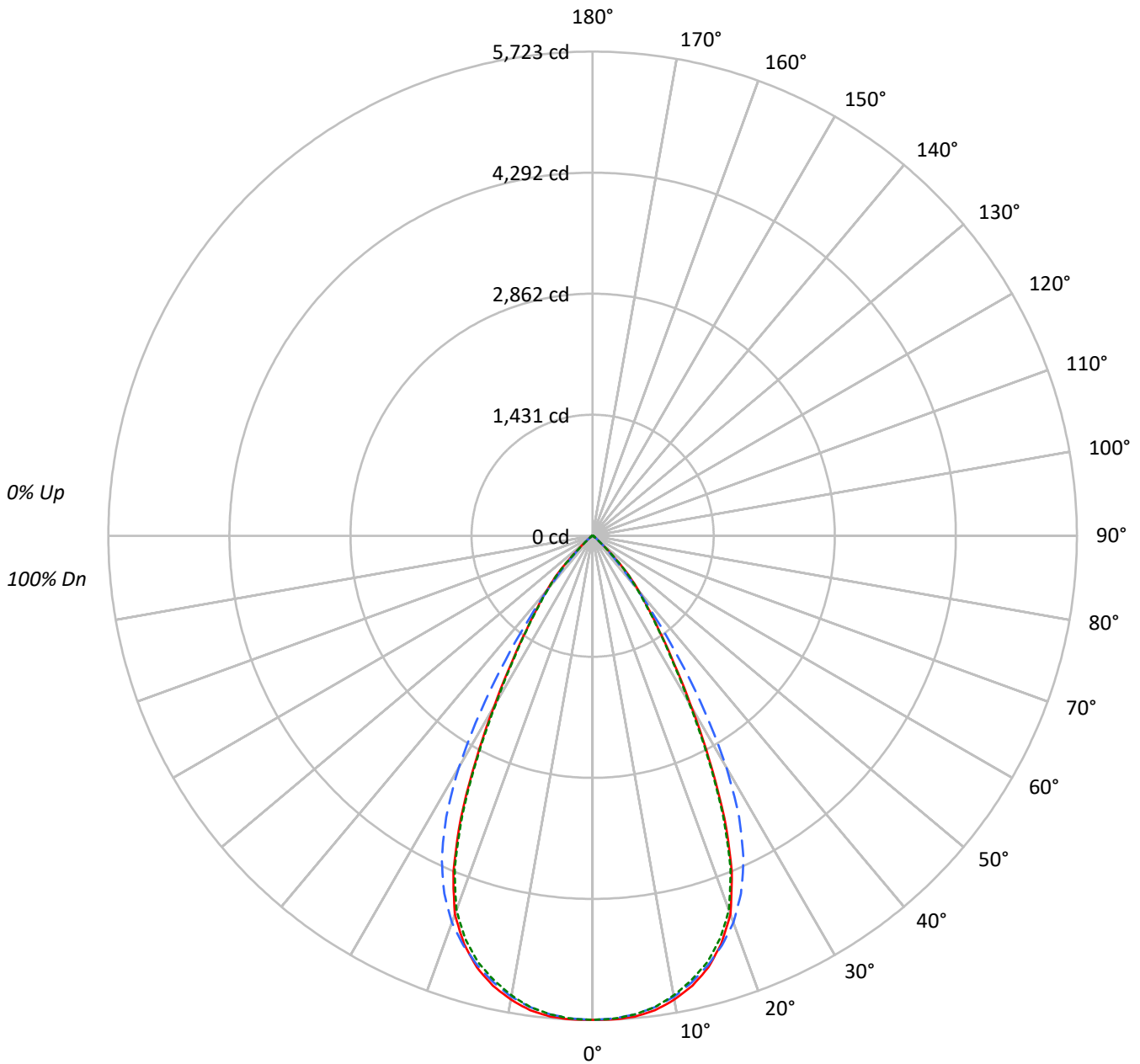
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5122.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 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): 72.4  
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: LD4C65D010 EX4C659030 4LCSQWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C65D010 EX4C659030 4LCSQWLI

**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°	552052	552052	552052
5°	552630	550083	550083
10°	545372	542148	540473
15°	527673	525176	521629
20°	488691	499350	483290
25°	392926	449181	387751
30°	259343	352185	253192
35°	162092	211482	159159
40°	105792	98007	101648
45°	50939	39095	48060
50°	12819	15581	12039
55°	7082	6409	6847
60°	4824	4053	4574
65°	3311	2991	3311
70°	2595	2229	2595
75°	1976	1976	1976
80°	1445	2167	2167
85°	1439	2878	2878



TEST NUMBER: P#

CATALOG NUMBER: LD4C65D010 EX4C659030 4LCSQWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.1	10.5
10°-20°	1469.4	28.7
20°-30°	1751.1	34.2
30°-40°	991.6	19.4
40°-50°	306.5	6.0
50°-60°	42.6	0.8
60°-70°	14.5	0.3
70°-80°	5.8	0.1
80°-90°	2.4	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°	3758.6	73.4
0°-40°	4750.1	92.7
0°-60°	5099.2	99.6
0°-90°	5122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5721	5721	5721	5721	5721	
5°	5706	5692	5679	5675	5679	540
15°	5282	5273	5257	5236	5222	1473
25°	3691	3906	4219	3913	3642	1646
35°	1376	1501	1795	1505	1351	896
45°	373	435	286	423	352	308
55°	42	42	38	41	41	41
65°	14	14	13	14	14	15
75°	5	5	5	5	5	6
85°	1	3	3	3	3	2
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C65D010 EX4C659030 4LCSQWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5721.4	5721.4	5721.4	5721.4	5721.4
2.5°	5722.7	5713.5	5710.9	5708.2	5713.5
5°	5705.6	5692.5	5679.3	5675.4	5679.3
7.5°	5657.0	5643.8	5621.5	5616.2	5620.2
10°	5566.3	5554.4	5533.4	5521.6	5516.3
12.5°	5446.7	5427.0	5407.2	5394.1	5381.0
15°	5282.4	5273.2	5257.4	5236.4	5221.9
17.5°	5055.0	5068.1	5077.3	5035.3	4997.2
20°	4759.3	4807.9	4863.1	4777.7	4706.7
22.5°	4297.9	4437.2	4577.9	4416.2	4258.5
25°	3690.7	3906.3	4219.1	3912.8	3642.1
27.5°	2982.3	3255.6	3748.5	3257.0	2942.8
30°	2327.7	2609.0	3161.0	2572.2	2272.5
32.5°	1787.5	1997.8	2469.7	1966.3	1749.4
35°	1376.1	1501.0	1795.4	1504.9	1351.2
37.5°	1069.9	1133.0	1207.9	1110.6	1038.3
40°	839.9	842.5	778.1	829.4	807.0
42.5°	623.0	620.4	478.4	604.6	608.5
45°	373.3	435.1	286.5	423.2	352.2
47.5°	177.4	245.8	172.2	232.6	164.3
50°	85.4	118.3	103.8	110.4	80.2
52.5°	57.8	60.5	59.1	57.8	55.2
55°	42.1	42.1	38.1	40.7	40.7
57.5°	31.5	31.5	27.6	30.2	30.2
60°	25.0	23.7	21.0	23.7	23.7
62.5°	18.4	18.4	15.8	18.4	18.4
65°	14.5	14.5	13.1	14.5	14.5
67.5°	11.8	11.8	9.2	11.8	10.5
70°	9.2	9.2	7.9	9.2	9.2
72.5°	6.6	6.6	6.6	6.6	6.6
75°	5.3	5.3	5.3	5.3	5.3
77.5°	3.9	3.9	3.9	3.9	3.9
80°	2.6	2.6	3.9	3.9	3.9
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	2.6	2.6	2.6	2.6
87.5°	1.3	1.3	2.6	2.6	2.6
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)