

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: **LD4C25D010 EX4C259030 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: LD4C25D010 EX4C259030 4LCSQWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

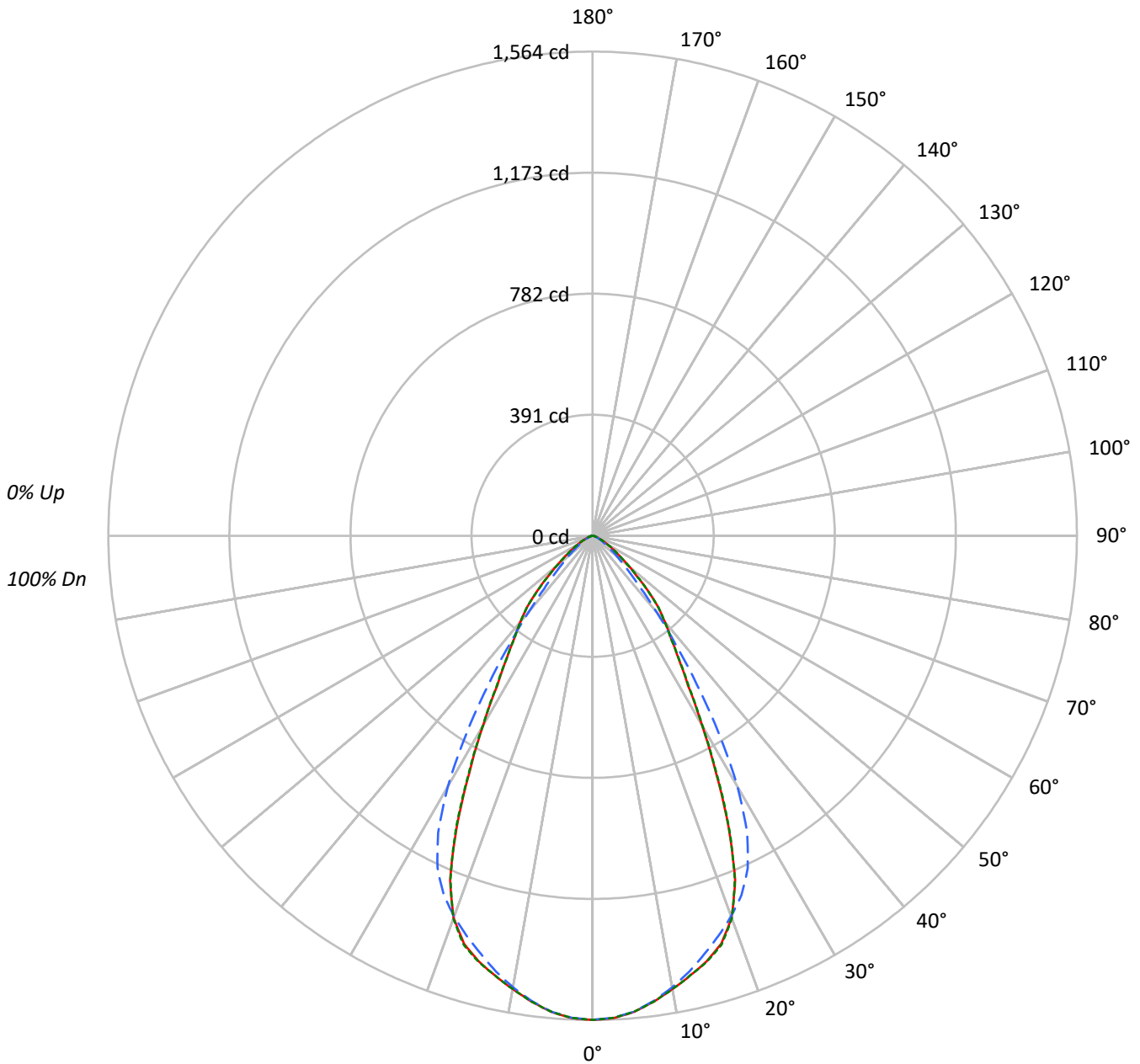
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1655.0 lumens
Efficiency: N/A
Efficacy: 52.5 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): 31.5
Input Voltage (V):
Input Current (A_{in}): 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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77				77															
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71				71															
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66				66															
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61				61															
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56				56															
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52				52															
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49															
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	150880	150880	150880
5°	149490	149403	149451
10°	145663	145085	145663
15°	142157	139600	142307
20°	134790	134276	135036
25°	110563	126160	111137
30°	78838	104218	78949
35°	56870	69061	57034
40°	45584	40130	45584
45°	34783	23416	34523
50°	22952	14951	22877
55°	15426	10043	15258
60°	10363	6851	10459
65°	7101	4840	6986
70°	4740	3470	4740
75°	3132	2572	3132
80°	2167	1945	2167
85°	1661	1661	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	8.8
10°-20°	396.4	23.9
20°-30°	495.5	29.9
30°-40°	333.3	20.1
40°-50°	176.0	10.6
50°-60°	71.5	4.3
60°-70°	26.5	1.6
70°-80°	8.6	0.5
80°-90°	1.9	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°	1037.2	62.7
0°-40°	1370.5	82.8
0°-60°	1618.1	97.8
0°-90°	1655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1543	1542	1542	1542	1543	145
15°	1423	1411	1398	1411	1425	399
25°	1038	1097	1185	1099	1044	467
35°	483	507	586	508	484	311
45°	255	242	172	241	253	195
55°	92	77	60	77	91	85
65°	31	25	21	25	31	32
75°	8	7	7	7	8	10
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.7	1563.7	1563.7	1563.7	1563.7
2.5°	1559.7	1558.7	1558.2	1558.2	1558.7
5°	1543.4	1542.0	1542.5	1542.5	1543.0
7.5°	1517.3	1516.8	1515.3	1517.3	1517.3
10°	1486.7	1484.3	1480.8	1484.8	1486.7
12.5°	1455.2	1447.8	1441.9	1447.8	1455.2
15°	1423.1	1411.3	1397.5	1410.8	1424.6
17.5°	1381.2	1369.4	1354.1	1371.8	1385.2
20°	1312.7	1313.7	1307.7	1312.7	1315.1
22.5°	1202.7	1224.9	1256.0	1225.4	1199.3
25°	1038.5	1096.7	1185.0	1098.7	1043.9
27.5°	862.5	936.4	1080.9	940.9	867.9
30°	707.6	773.2	935.4	777.6	708.6
32.5°	573.0	621.8	760.4	627.7	579.4
35°	482.8	506.9	586.3	507.9	484.2
37.5°	413.7	413.7	435.4	415.7	411.8
40°	361.9	346.2	318.6	345.7	361.9
42.5°	313.6	290.0	231.3	289.0	314.6
45°	254.9	242.1	171.6	241.1	253.0
47.5°	195.8	186.9	129.2	185.9	197.2
50°	152.9	139.1	99.6	138.1	152.4
52.5°	117.4	102.6	76.9	102.6	116.4
55°	91.7	76.9	59.7	76.9	90.7
57.5°	70.5	58.7	45.4	57.7	70.0
60°	53.7	43.9	35.5	43.9	54.2
62.5°	40.9	33.5	27.1	33.0	40.4
65°	31.1	25.1	21.2	25.1	30.6
67.5°	22.7	18.7	16.3	18.7	23.2
70°	16.8	14.3	12.3	13.8	16.8
72.5°	12.3	10.4	9.4	10.4	12.3
75°	8.4	7.4	6.9	7.4	8.4
77.5°	5.9	5.4	4.9	5.4	5.9
80°	3.9	3.5	3.5	3.9	3.9
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.5	1.5	1.5	1.5	1.5
87.5°	1.0	1.0	1.0	1.0	1.0
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)