

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 EX4C259040 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 EX4C259040 4LCSQWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

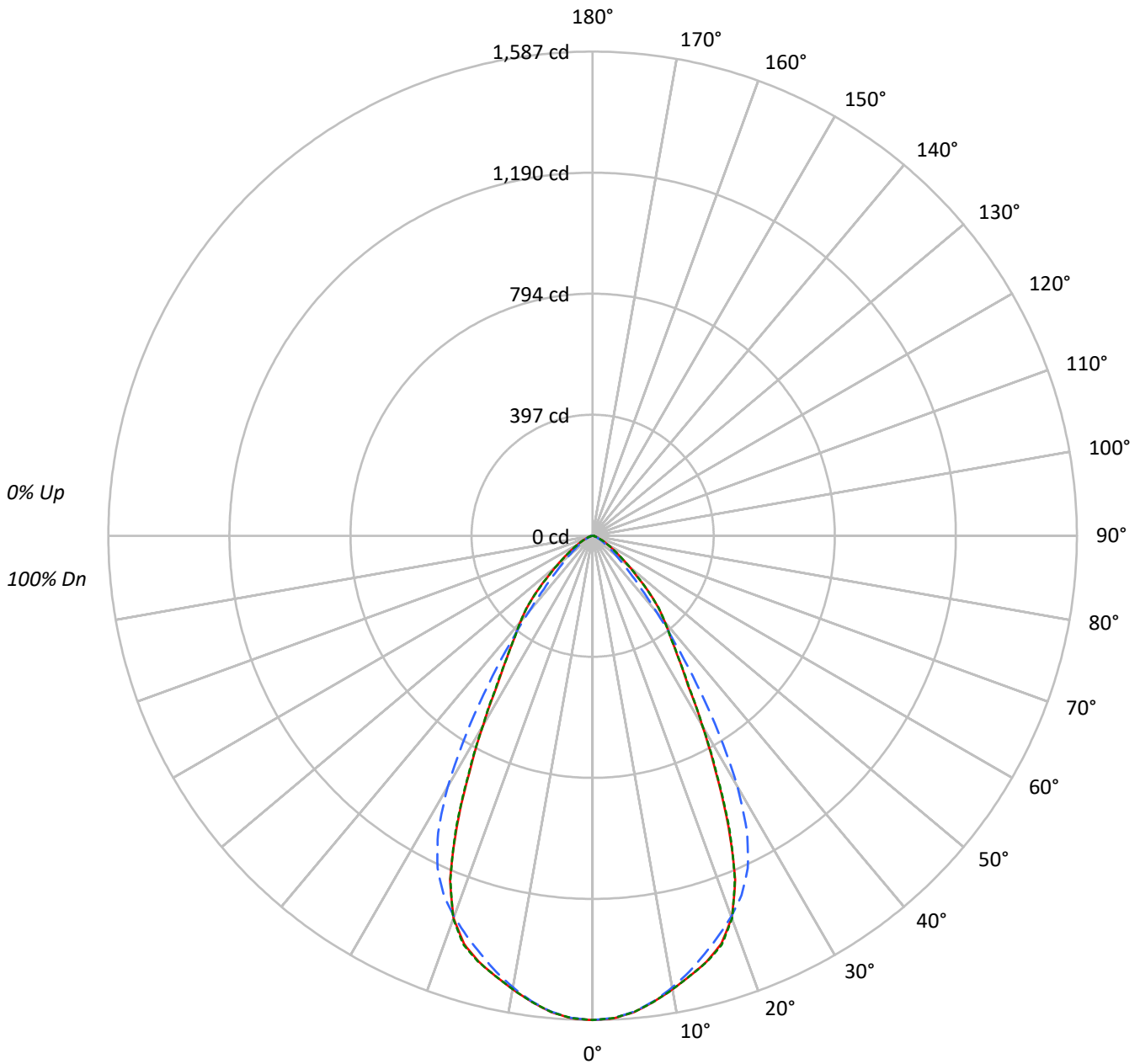
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 53.3 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 (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				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°	153157	153157	153157
5°	151756	151659	151708
10°	147867	147280	147867
15°	144305	141708	144455
20°	136823	136309	137080
25°	112234	128065	112820
30°	80030	105800	80141
35°	57729	70109	57906
40°	46277	40735	46277
45°	35315	23771	35042
50°	23297	15176	23222
55°	15662	10194	15493
60°	10537	6947	10633
65°	7192	4909	7078
70°	4796	3526	4796
75°	3169	2610	3169
80°	2223	1945	2223
85°	1661	1661	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	8.8
10°-20°	402.3	23.9
20°-30°	503.0	29.9
30°-40°	338.4	20.1
40°-50°	178.7	10.6
50°-60°	72.6	4.3
60°-70°	26.9	1.6
70°-80°	8.7	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°	1052.9	62.7
0°-40°	1391.2	82.8
0°-60°	1642.5	97.8
0°-90°	1680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1567	1565	1566	1566	1566	148
15°	1445	1433	1419	1432	1446	405
25°	1054	1113	1203	1115	1060	475
35°	490	515	595	516	492	315
45°	259	246	174	245	257	198
55°	93	78	61	78	92	86
65°	32	26	22	26	31	32
75°	8	8	7	8	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°	1587.3	1587.3	1587.3	1587.3	1587.3
2.5°	1583.3	1582.3	1581.8	1581.8	1582.3
5°	1566.8	1565.3	1565.8	1565.8	1566.3
7.5°	1540.2	1539.7	1538.2	1540.2	1540.2
10°	1509.2	1506.7	1503.2	1507.2	1509.2
12.5°	1477.2	1469.7	1463.6	1469.7	1477.2
15°	1444.6	1432.6	1418.6	1432.1	1446.1
17.5°	1402.1	1390.1	1374.5	1392.6	1406.1
20°	1332.5	1333.5	1327.5	1332.5	1335.0
22.5°	1220.9	1243.4	1274.9	1243.9	1217.4
25°	1054.2	1113.3	1202.9	1115.3	1059.7
27.5°	875.5	950.6	1097.2	955.1	881.0
30°	718.3	784.9	949.6	789.4	719.3
32.5°	581.7	631.2	771.9	637.2	588.2
35°	490.1	514.6	595.2	515.6	491.6
37.5°	420.0	420.0	442.0	422.0	418.0
40°	367.4	351.4	323.4	350.9	367.4
42.5°	318.4	294.3	234.8	293.3	319.4
45°	258.8	245.8	174.2	244.8	256.8
47.5°	198.7	189.7	131.1	188.7	200.2
50°	155.2	141.2	101.1	140.2	154.7
52.5°	119.1	104.1	78.1	104.1	118.1
55°	93.1	78.1	60.6	78.1	92.1
57.5°	71.6	59.6	46.1	58.6	71.1
60°	54.6	44.6	36.0	44.6	55.1
62.5°	41.5	34.0	27.5	33.5	41.0
65°	31.5	25.5	21.5	25.5	31.0
67.5°	23.0	19.0	16.5	19.0	23.5
70°	17.0	14.5	12.5	14.0	17.0
72.5°	12.5	10.5	9.5	10.5	12.5
75°	8.5	7.5	7.0	7.5	8.5
77.5°	6.0	5.5	5.0	5.5	6.0
80°	4.0	3.5	3.5	4.0	4.0
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)