

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: **LD4C20D010 EX4C209030 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: LD4C20D010 EX4C209030 4LCSQWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

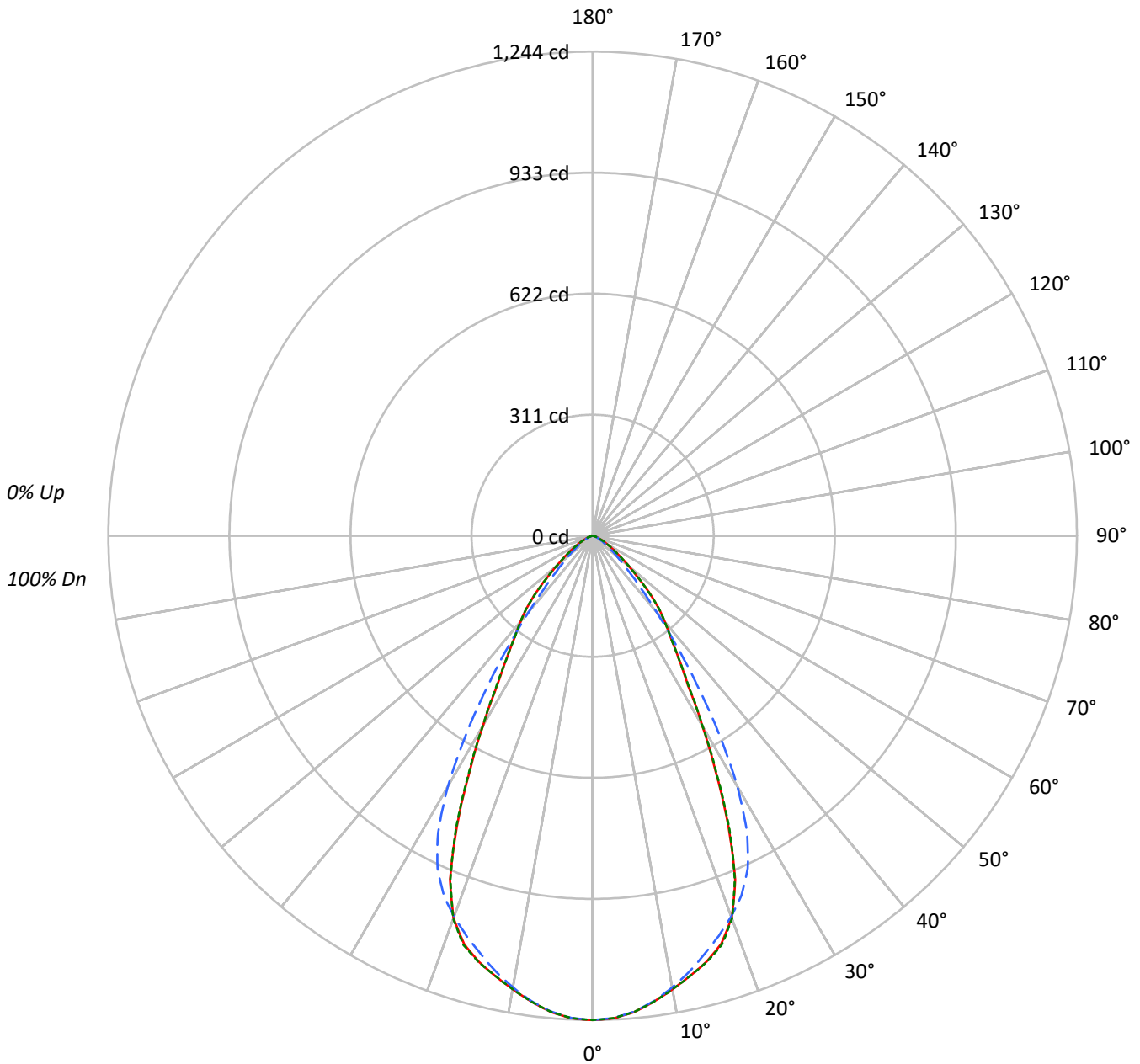
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1317.0 lumens
Efficiency: N/A
Efficacy: 60.4 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): 21.8
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																			
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°	120061	120061	120061
5°	118960	118883	118922
10°	115917	115457	115917
15°	113128	111091	113248
20°	107261	106860	107456
25°	87982	100395	88439
30°	62738	82938	62827
35°	45255	54961	45385
40°	36276	31930	36276
45°	27687	18640	27469
50°	18253	11904	18208
55°	12280	7991	12146
60°	8259	5461	8337
65°	5639	3858	5548
70°	3752	2765	3752
75°	2498	2050	2498
80°	1723	1500	1723
85°	1329	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	8.8
10°-20°	315.4	23.9
20°-30°	394.3	29.9
30°-40°	265.3	20.1
40°-50°	140.1	10.6
50°-60°	56.9	4.3
60°-70°	21.1	1.6
70°-80°	6.8	0.5
80°-90°	1.5	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°	825.4	62.7
0°-40°	1090.6	82.8
0°-60°	1287.6	97.8
0°-90°	1317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1228	1227	1227	1227	1228	116
15°	1132	1123	1112	1123	1134	317
25°	826	873	943	874	831	372
35°	384	403	467	404	385	247
45°	203	193	137	192	201	156
55°	73	61	48	61	72	68
65°	25	20	17	20	24	25
75°	7	6	6	6	7	8
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.3	1244.3	1244.3	1244.3	1244.3
2.5°	1241.2	1240.4	1240.0	1240.0	1240.4
5°	1228.2	1227.1	1227.4	1227.4	1227.8
7.5°	1207.4	1207.0	1205.9	1207.4	1207.4
10°	1183.1	1181.1	1178.4	1181.5	1183.1
12.5°	1158.0	1152.1	1147.4	1152.1	1158.0
15°	1132.5	1123.1	1112.1	1122.7	1133.7
17.5°	1099.1	1089.7	1077.5	1091.7	1102.3
20°	1044.6	1045.4	1040.7	1044.6	1046.5
22.5°	957.1	974.7	999.5	975.1	954.3
25°	826.4	872.7	943.0	874.3	830.7
27.5°	686.3	745.2	860.2	748.7	690.6
30°	563.1	615.3	744.4	618.8	563.9
32.5°	456.0	494.8	605.1	499.5	461.1
35°	384.2	403.4	466.6	404.2	385.3
37.5°	329.2	329.2	346.5	330.8	327.7
40°	288.0	275.5	253.5	275.1	288.0
42.5°	249.6	230.7	184.0	229.9	250.4
45°	202.9	192.7	136.6	191.9	201.3
47.5°	155.8	148.7	102.8	147.9	157.0
50°	121.6	110.7	79.3	109.9	121.3
52.5°	93.4	81.6	61.2	81.6	92.6
55°	73.0	61.2	47.5	61.2	72.2
57.5°	56.1	46.7	36.1	45.9	55.7
60°	42.8	34.9	28.3	34.9	43.2
62.5°	32.6	26.7	21.6	26.3	32.2
65°	24.7	20.0	16.9	20.0	24.3
67.5°	18.1	14.9	12.9	14.9	18.4
70°	13.3	11.4	9.8	11.0	13.3
72.5°	9.8	8.2	7.5	8.2	9.8
75°	6.7	5.9	5.5	5.9	6.7
77.5°	4.7	4.3	3.9	4.3	4.7
80°	3.1	2.7	2.7	3.1	3.1
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.8	0.8	0.8	0.8	0.8
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)