

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 EX4C209027 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 EX4C209027 4LCSQWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

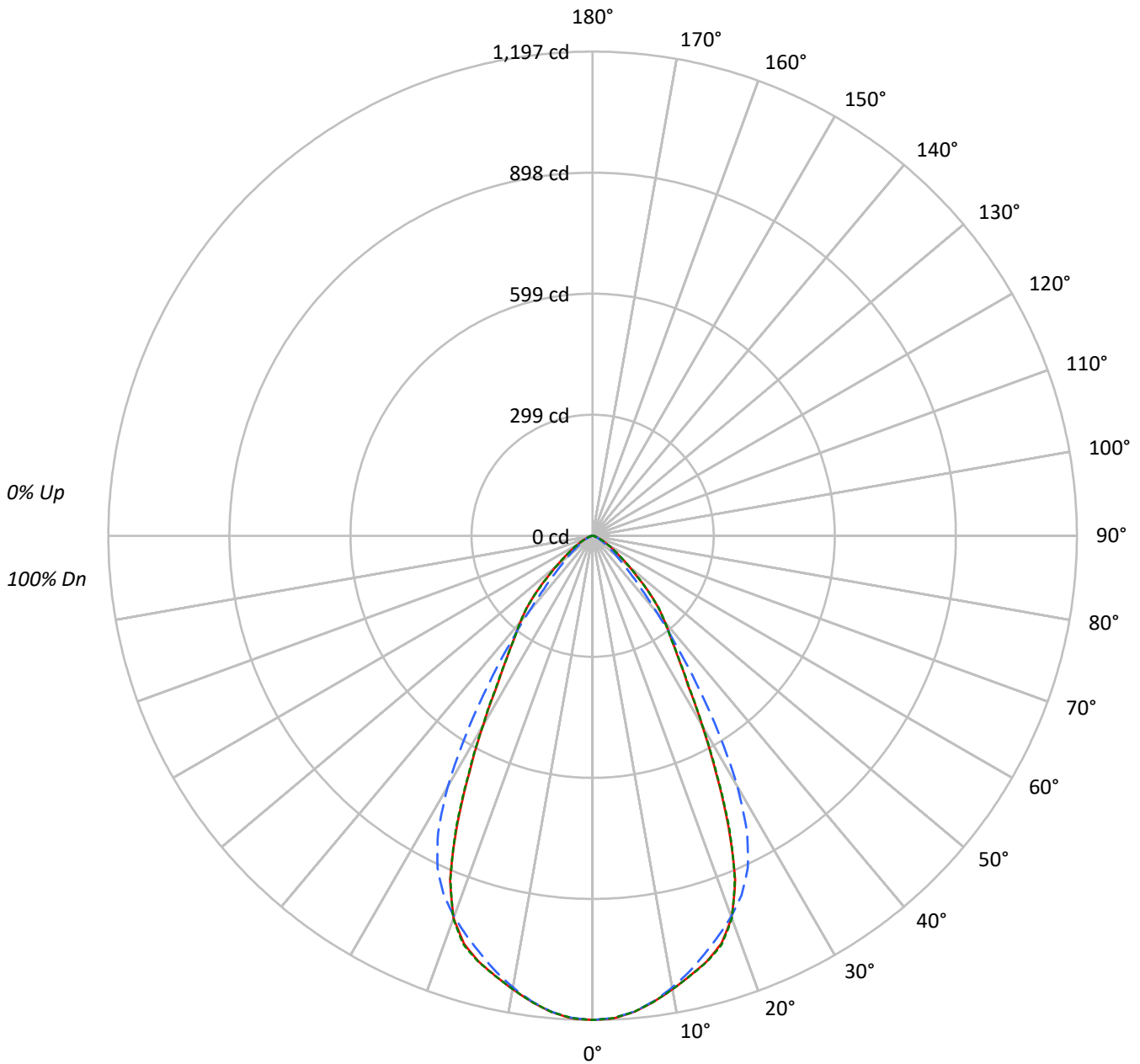
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1267.0 lumens
Efficiency: N/A
Efficacy: 58.1 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°	115507	115507	115507
5°	114447	114369	114408
10°	111518	111077	111518
15°	108833	106875	108943
20°	103184	102805	103380
25°	84639	96584	85086
30°	60354	79785	60443
35°	43536	52876	43665
40°	34903	30721	34903
45°	26636	17930	26432
50°	17563	11453	17503
55°	11809	7688	11692
60°	7931	5249	8009
65°	5434	3699	5343
70°	3611	2652	3611
75°	2386	1976	2386
80°	1667	1445	1667
85°	1218	1218	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	8.8
10°-20°	303.4	23.9
20°-30°	379.3	29.9
30°-40°	255.2	20.1
40°-50°	134.7	10.6
50°-60°	54.8	4.3
60°-70°	20.3	1.6
70°-80°	6.6	0.5
80°-90°	1.4	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°	794.0	62.7
0°-40°	1049.2	82.8
0°-60°	1238.7	97.8
0°-90°	1267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1182	1180	1181	1181	1181	111
15°	1090	1080	1070	1080	1091	305
25°	795	840	907	841	799	358
35°	370	388	449	389	371	238
45°	195	185	131	185	194	150
55°	70	59	46	59	70	65
65°	24	19	16	19	23	25
75°	6	6	5	6	6	7
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.1	1197.1	1197.1	1197.1	1197.1
2.5°	1194.1	1193.3	1192.9	1192.9	1193.3
5°	1181.6	1180.5	1180.8	1180.8	1181.2
7.5°	1161.6	1161.2	1160.1	1161.6	1161.6
10°	1138.2	1136.3	1133.7	1136.7	1138.2
12.5°	1114.0	1108.4	1103.8	1108.4	1114.0
15°	1089.5	1080.4	1069.9	1080.0	1090.6
17.5°	1057.4	1048.3	1036.6	1050.2	1060.4
20°	1004.9	1005.7	1001.2	1004.9	1006.8
22.5°	920.7	937.7	961.5	938.1	918.1
25°	795.0	839.6	907.2	841.1	799.2
27.5°	660.3	716.9	827.5	720.3	664.4
30°	541.7	591.9	716.1	595.3	542.5
32.5°	438.7	476.0	582.1	480.6	443.6
35°	369.6	388.1	448.9	388.8	370.7
37.5°	316.7	316.7	333.3	318.2	315.2
40°	277.1	265.0	243.9	264.6	277.1
42.5°	240.1	222.0	177.1	221.2	240.8
45°	195.2	185.4	131.4	184.6	193.7
47.5°	149.9	143.1	98.9	142.3	151.0
50°	117.0	106.5	76.3	105.7	116.6
52.5°	89.8	78.5	58.9	78.5	89.1
55°	70.2	58.9	45.7	58.9	69.5
57.5°	54.0	44.9	34.7	44.2	53.6
60°	41.1	33.6	27.2	33.6	41.5
62.5°	31.3	25.7	20.8	25.3	31.0
65°	23.8	19.3	16.2	19.3	23.4
67.5°	17.4	14.3	12.5	14.3	17.7
70°	12.8	10.9	9.4	10.6	12.8
72.5°	9.4	7.9	7.2	7.9	9.4
75°	6.4	5.7	5.3	5.7	6.4
77.5°	4.5	4.2	3.8	4.2	4.5
80°	3.0	2.6	2.6	3.0	3.0
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.1	1.1	1.1	1.1	1.1
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)