

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: **LD4C90D010 EX4C909027 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: LD4C90D010 EX4C909027 4LCSQWH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

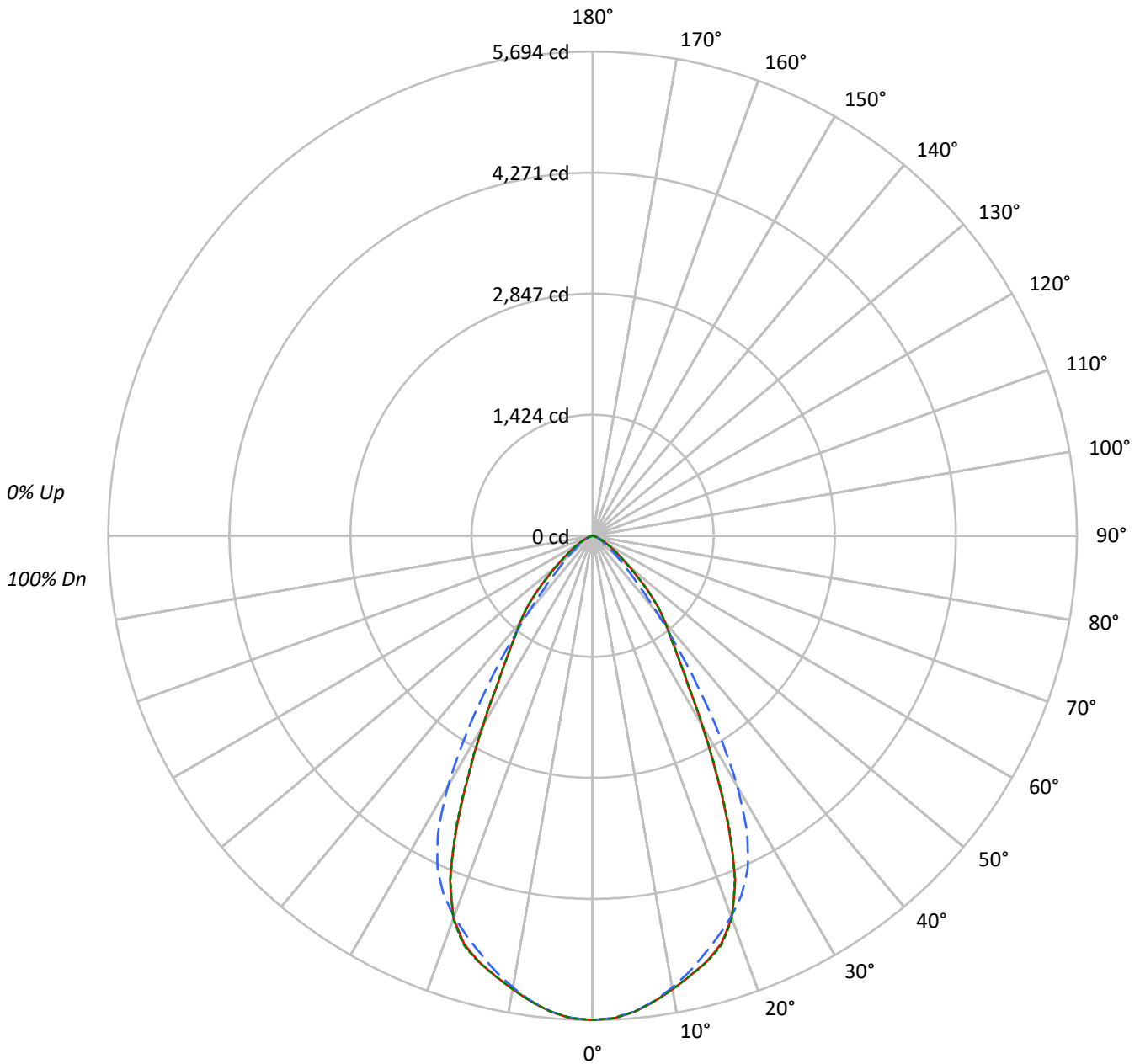
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6027.0 lumens
Efficiency: N/A
Efficacy: 62.1 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): 97.1
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																			
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°	549446	549446	549446
5°	544416	544068	544242
10°	530469	528363	530469
15°	517704	508374	518243
20°	490848	489010	491772
25°	402635	459412	404732
30°	287107	379549	287508
35°	207089	251508	207713
40°	166024	146123	166024
45°	126686	85271	125703
50°	83566	54445	83296
55°	56187	36555	55581
60°	37766	24952	38113
65°	25822	17626	25411
70°	17237	12667	17237
75°	11371	9357	11371
80°	8001	7001	8001
85°	5978	5978	5978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	8.8
10°-20°	1443.4	23.9
20°-30°	1804.4	29.9
30°-40°	1213.9	20.1
40°-50°	640.9	10.6
50°-60°	260.5	4.3
60°-70°	96.6	1.6
70°-80°	31.2	0.5
80°-90°	6.7	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°	3777.2	62.7
0°-40°	4991.0	82.8
0°-60°	5892.5	97.8
0°-90°	6027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5694	5694	5694	5694	5694	
5°	5621	5615	5617	5617	5619	530
15°	5183	5140	5089	5138	5188	1452
25°	3782	3994	4315	4001	3802	1702
35°	1758	1846	2135	1850	1763	1131
45°	928	882	625	878	921	712
55°	334	280	217	280	330	310
65°	113	92	77	92	111	117
75°	30	27	25	27	30	35
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5694.4	5694.4	5694.4	5694.4	5694.4
2.5°	5680.0	5676.4	5674.6	5674.6	5676.4
5°	5620.8	5615.4	5617.2	5617.2	5619.0
7.5°	5525.6	5523.8	5518.4	5525.6	5525.6
10°	5414.2	5405.3	5392.7	5407.1	5414.2
12.5°	5299.3	5272.4	5250.8	5272.4	5299.3
15°	5182.6	5139.5	5089.2	5137.7	5188.0
17.5°	5029.9	4986.8	4931.2	4995.8	5044.3
20°	4780.3	4783.9	4762.4	4780.3	4789.3
22.5°	4379.9	4460.7	4573.8	4462.5	4367.3
25°	3781.9	3993.8	4315.2	4001.0	3801.6
27.5°	3140.8	3410.2	3936.3	3426.3	3160.6
30°	2576.9	2815.8	3406.6	2831.9	2580.5
32.5°	2086.7	2264.5	2769.1	2286.0	2110.0
35°	1758.1	1846.0	2135.2	1849.6	1763.4
37.5°	1506.6	1506.6	1585.7	1513.8	1499.5
40°	1318.1	1260.6	1160.1	1258.8	1318.1
42.5°	1142.1	1055.9	842.2	1052.3	1145.7
45°	928.4	881.7	624.9	878.1	921.2
47.5°	712.9	680.6	470.5	677.0	718.3
50°	556.7	506.4	362.7	502.8	554.9
52.5°	427.4	373.5	280.1	373.5	423.8
55°	334.0	280.1	217.3	280.1	330.4
57.5°	256.8	213.7	165.2	210.1	255.0
60°	195.7	159.8	129.3	159.8	197.5
62.5°	149.0	122.1	98.8	120.3	147.3
65°	113.1	91.6	77.2	91.6	111.3
67.5°	82.6	68.2	59.3	68.2	84.4
70°	61.1	52.1	44.9	50.3	61.1
72.5°	44.9	37.7	34.1	37.7	44.9
75°	30.5	26.9	25.1	26.9	30.5
77.5°	21.5	19.8	18.0	19.8	21.5
80°	14.4	12.6	12.6	14.4	14.4
82.5°	9.0	9.0	9.0	9.0	9.0
85°	5.4	5.4	5.4	5.4	5.4
87.5°	3.6	3.6	3.6	3.6	3.6
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)