

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: **LD4C05D010 EX4C059027 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: LD4C05D010 EX4C059027 4LCSQWH
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

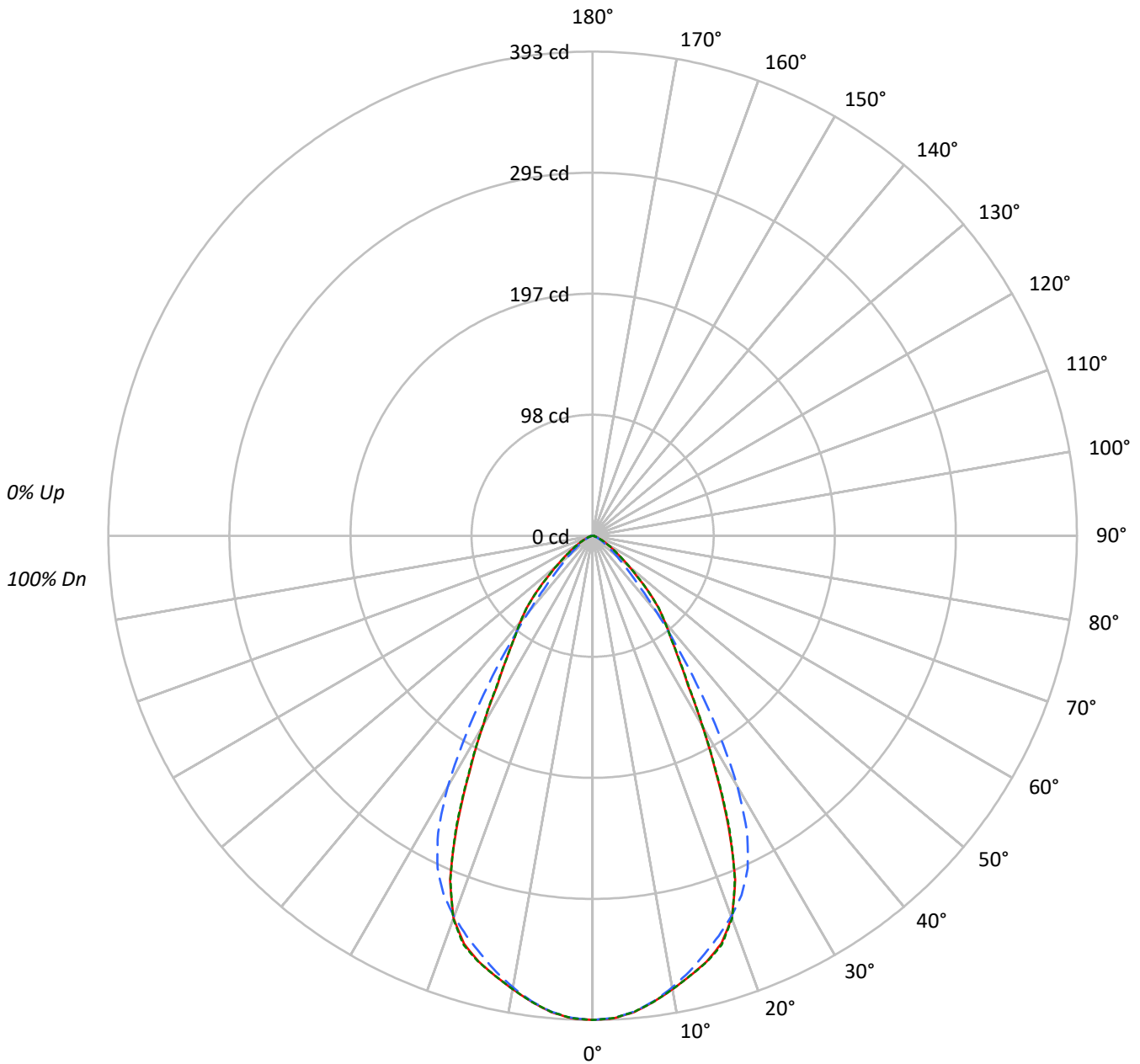
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 416.0 lumens
Efficiency: N/A
Efficacy: 57.8 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): 7.2
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°	37920	37920	37920
5°	37581	37552	37561
10°	36614	36467	36614
15°	35732	35092	35772
20°	33885	33751	33946
25°	27787	31705	27936
30°	19821	26194	19843
35°	14288	17362	14335
40°	11462	10089	11462
45°	8747	5881	8679
50°	5764	3753	5749
55°	3886	2523	3835
60°	2605	1718	2624
65°	1781	1210	1758
70°	1185	875	1185
75°	783	634	783
80°	556	500	556
85°	443	443	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	8.8
10°-20°	99.6	23.9
20°-30°	124.5	29.9
30°-40°	83.8	20.1
40°-50°	44.2	10.6
50°-60°	18.0	4.3
60°-70°	6.7	1.6
70°-80°	2.2	0.5
80°-90°	0.5	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°	260.7	62.7
0°-40°	344.5	82.8
0°-60°	406.7	97.8
0°-90°	416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	393	393	393	393	393	
5°	388	388	388	388	388	37
15°	358	355	351	355	358	100
25°	261	276	298	276	262	117
35°	121	127	147	128	122	78
45°	64	61	43	61	64	49
55°	23	19	15	19	23	21
65°	8	6	5	6	8	8
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	393.0	393.0	393.0	393.0	393.0
2.5°	392.1	391.8	391.7	391.7	391.8
5°	388.0	387.6	387.7	387.7	387.8
7.5°	381.4	381.3	380.9	381.4	381.4
10°	373.7	373.1	372.2	373.2	373.7
12.5°	365.8	363.9	362.4	363.9	365.8
15°	357.7	354.7	351.3	354.6	358.1
17.5°	347.2	344.2	340.4	344.8	348.2
20°	330.0	330.2	328.7	330.0	330.6
22.5°	302.3	307.9	315.7	308.0	301.4
25°	261.0	275.7	297.8	276.2	262.4
27.5°	216.8	235.4	271.7	236.5	218.1
30°	177.9	194.4	235.1	195.5	178.1
32.5°	144.0	156.3	191.1	157.8	145.6
35°	121.3	127.4	147.4	127.7	121.7
37.5°	104.0	104.0	109.4	104.5	103.5
40°	91.0	87.0	80.1	86.9	91.0
42.5°	78.8	72.9	58.1	72.6	79.1
45°	64.1	60.9	43.1	60.6	63.6
47.5°	49.2	47.0	32.5	46.7	49.6
50°	38.4	35.0	25.0	34.7	38.3
52.5°	29.5	25.8	19.3	25.8	29.3
55°	23.1	19.3	15.0	19.3	22.8
57.5°	17.7	14.7	11.4	14.5	17.6
60°	13.5	11.0	8.9	11.0	13.6
62.5°	10.3	8.4	6.8	8.3	10.2
65°	7.8	6.3	5.3	6.3	7.7
67.5°	5.7	4.7	4.1	4.7	5.8
70°	4.2	3.6	3.1	3.5	4.2
72.5°	3.1	2.6	2.4	2.6	3.1
75°	2.1	1.9	1.7	1.9	2.1
77.5°	1.5	1.4	1.2	1.4	1.5
80°	1.0	0.9	0.9	1.0	1.0
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.2	0.2	0.2	0.2	0.2
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)