

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 EX4C909035 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 EX4C909035 4LCSQWH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

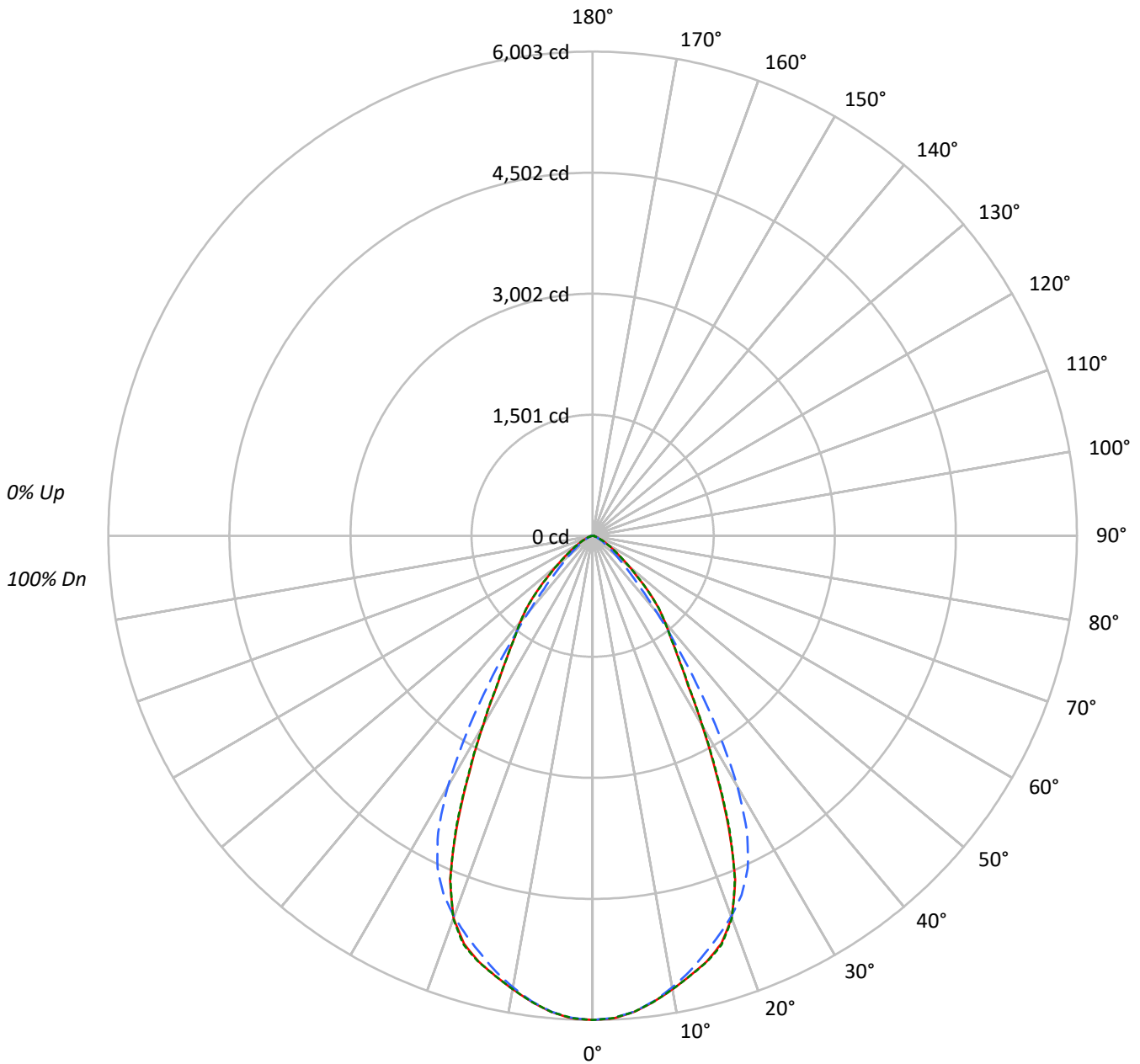
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6354.0 lumens
Efficiency: N/A
Efficacy: 65.4 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): 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°	579252	579252	579252
5°	573948	573580	573764
10°	559255	557031	559255
15°	545793	535954	546363
20°	517483	515542	518459
25°	424481	484346	426696
30°	302683	400139	303107
35°	218314	265148	218986
40°	175030	154046	175030
45°	133563	89897	132526
50°	88100	57402	87814
55°	59231	38540	58592
60°	39831	26303	40197
65°	27238	18585	26804
70°	18168	13344	18168
75°	12004	9879	12004
80°	8390	7390	8390
85°	6310	6310	6310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.1	8.8
10°-20°	1521.7	23.9
20°-30°	1902.3	29.9
30°-40°	1279.7	20.1
40°-50°	675.7	10.6
50°-60°	274.6	4.3
60°-70°	101.8	1.6
70°-80°	32.9	0.5
80°-90°	7.1	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°	3982.1	62.7
0°-40°	5261.8	82.8
0°-60°	6212.2	97.8
0°-90°	6354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6003	6003	6003	6003	6003	
5°	5926	5920	5922	5922	5924	558
15°	5464	5418	5365	5416	5470	1531
25°	3987	4210	4549	4218	4008	1795
35°	1853	1946	2251	1950	1859	1193
45°	979	930	659	926	971	751
55°	352	295	229	295	348	327
65°	119	97	81	97	117	123
75°	32	28	26	28	32	37
85°	6	6	6	6	6	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6003.3	6003.3	6003.3	6003.3	6003.3
2.5°	5988.2	5984.4	5982.5	5982.5	5984.4
5°	5925.7	5920.0	5921.9	5921.9	5923.8
7.5°	5825.4	5823.5	5817.8	5825.4	5825.4
10°	5708.0	5698.5	5685.3	5700.4	5708.0
12.5°	5586.8	5558.4	5535.7	5558.4	5586.8
15°	5463.8	5418.3	5365.3	5416.4	5469.5
17.5°	5302.9	5257.4	5198.7	5266.9	5318.0
20°	5039.7	5043.5	5020.8	5039.7	5049.2
22.5°	4617.5	4702.7	4822.0	4704.6	4604.3
25°	3987.1	4210.5	4549.4	4218.0	4007.9
27.5°	3311.2	3595.2	4149.9	3612.2	3332.0
30°	2716.7	2968.5	3591.4	2985.6	2720.5
32.5°	2199.9	2387.3	2919.3	2410.0	2224.5
35°	1853.4	1946.2	2251.0	1950.0	1859.1
37.5°	1588.4	1588.4	1671.7	1596.0	1580.8
40°	1389.6	1329.0	1223.0	1327.1	1389.6
42.5°	1204.1	1113.2	887.9	1109.4	1207.9
45°	978.8	929.6	658.8	925.8	971.2
47.5°	751.6	717.5	496.0	713.7	757.3
50°	586.9	533.9	382.4	530.1	585.0
52.5°	450.6	393.8	295.3	393.8	446.8
55°	352.1	295.3	229.1	295.3	348.3
57.5°	270.7	225.3	174.2	221.5	268.8
60°	206.4	168.5	136.3	168.5	208.3
62.5°	157.1	128.7	104.1	126.8	155.2
65°	119.3	96.6	81.4	96.6	117.4
67.5°	87.1	71.9	62.5	71.9	89.0
70°	64.4	54.9	47.3	53.0	64.4
72.5°	47.3	39.8	36.0	39.8	47.3
75°	32.2	28.4	26.5	28.4	32.2
77.5°	22.7	20.8	18.9	20.8	22.7
80°	15.1	13.3	13.3	15.1	15.1
82.5°	9.5	9.5	9.5	9.5	9.5
85°	5.7	5.7	5.7	5.7	5.7
87.5°	3.8	3.8	3.8	3.8	3.8
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)