

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: **LD4C80D010 EX4C809035 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: LD4C80D010 EX4C809035 4LCSQWH
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

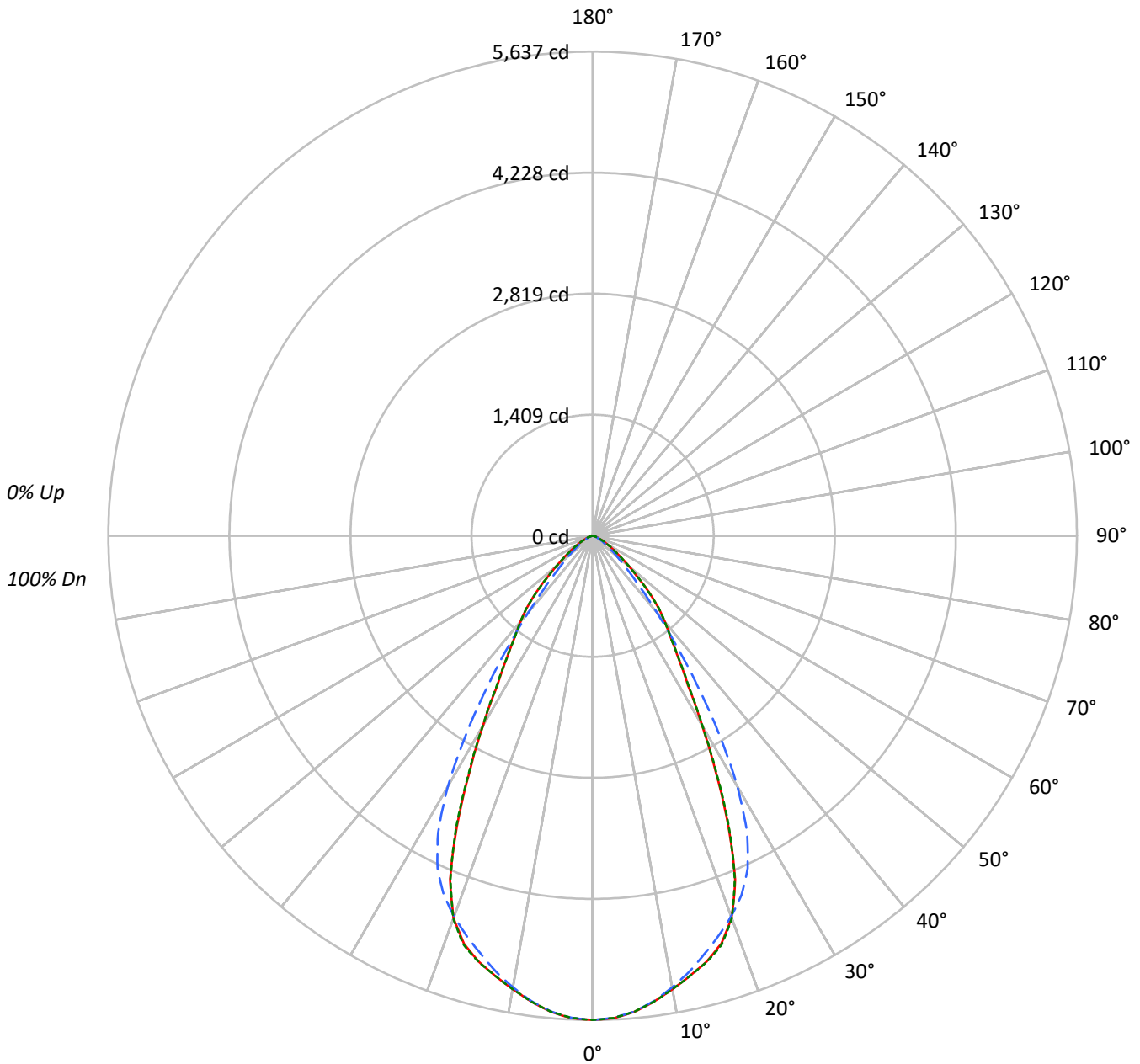
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5966.0 lumens
Efficiency: N/A
Efficacy: 66.7 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): 89.5
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				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°	543879	543879	543879
5°	538905	538557	538731
10°	525100	523013	525100
15°	512459	503229	512999
20°	485888	484060	486792
25°	398558	454770	400644
30°	284199	375705	284600
35°	204992	248963	205616
40°	164349	144637	164349
45°	125403	84412	124434
50°	82726	53905	82455
55°	55615	36185	55026
60°	37399	24701	37727
65°	25571	17443	25160
70°	17040	12526	17040
75°	11259	9283	11259
80°	7890	6890	7890
85°	5868	5868	5868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.0	8.8
10°-20°	1428.8	23.9
20°-30°	1786.2	29.9
30°-40°	1201.6	20.1
40°-50°	634.5	10.6
50°-60°	257.9	4.3
60°-70°	95.6	1.6
70°-80°	30.9	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°	3738.9	62.7
0°-40°	4940.5	82.8
0°-60°	5832.8	97.8
0°-90°	5966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5637	5637	5637	5637	5637	
5°	5564	5558	5560	5560	5562	524
15°	5130	5088	5038	5086	5136	1437
25°	3744	3953	4272	3960	3763	1685
35°	1740	1827	2114	1831	1746	1120
45°	919	873	619	869	912	705
55°	331	277	215	277	327	307
65°	112	91	76	91	110	115
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°	5636.7	5636.7	5636.7	5636.7	5636.7
2.5°	5622.5	5619.0	5617.2	5617.2	5619.0
5°	5563.9	5558.5	5560.3	5560.3	5562.1
7.5°	5469.7	5467.9	5462.5	5469.7	5469.7
10°	5359.4	5350.6	5338.1	5352.3	5359.4
12.5°	5245.7	5219.0	5197.7	5219.0	5245.7
15°	5130.1	5087.5	5037.7	5085.7	5135.5
17.5°	4979.0	4936.4	4881.3	4945.3	4993.3
20°	4732.0	4735.5	4714.2	4732.0	4740.8
22.5°	4335.5	4415.5	4527.5	4417.3	4323.1
25°	3743.6	3953.4	4271.6	3960.5	3763.2
27.5°	3109.0	3375.6	3896.5	3391.6	3128.6
30°	2550.8	2787.3	3372.1	2803.3	2554.4
32.5°	2065.6	2241.5	2741.0	2262.9	2088.7
35°	1740.3	1827.4	2113.6	1830.9	1745.6
37.5°	1491.4	1491.4	1569.6	1498.5	1484.3
40°	1304.8	1247.9	1148.3	1246.1	1304.8
42.5°	1130.5	1045.2	833.7	1041.7	1134.1
45°	919.0	872.8	618.6	869.2	911.9
47.5°	705.7	673.7	465.7	670.2	711.0
50°	551.1	501.3	359.1	497.7	549.3
52.5°	423.1	369.7	277.3	369.7	419.5
55°	330.6	277.3	215.1	277.3	327.1
57.5°	254.2	211.5	163.5	208.0	252.4
60°	193.8	158.2	128.0	158.2	195.5
62.5°	147.5	120.9	97.8	119.1	145.8
65°	112.0	90.7	76.4	90.7	110.2
67.5°	81.8	67.5	58.7	67.5	83.5
70°	60.4	51.6	44.4	49.8	60.4
72.5°	44.4	37.3	33.8	37.3	44.4
75°	30.2	26.7	24.9	26.7	30.2
77.5°	21.3	19.6	17.8	19.6	21.3
80°	14.2	12.4	12.4	14.2	14.2
82.5°	8.9	8.9	8.9	8.9	8.9
85°	5.3	5.3	5.3	5.3	5.3
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)