

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: **LD4C70D010 EX4C709030 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: LD4C70D010 EX4C709030 4LCSQWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

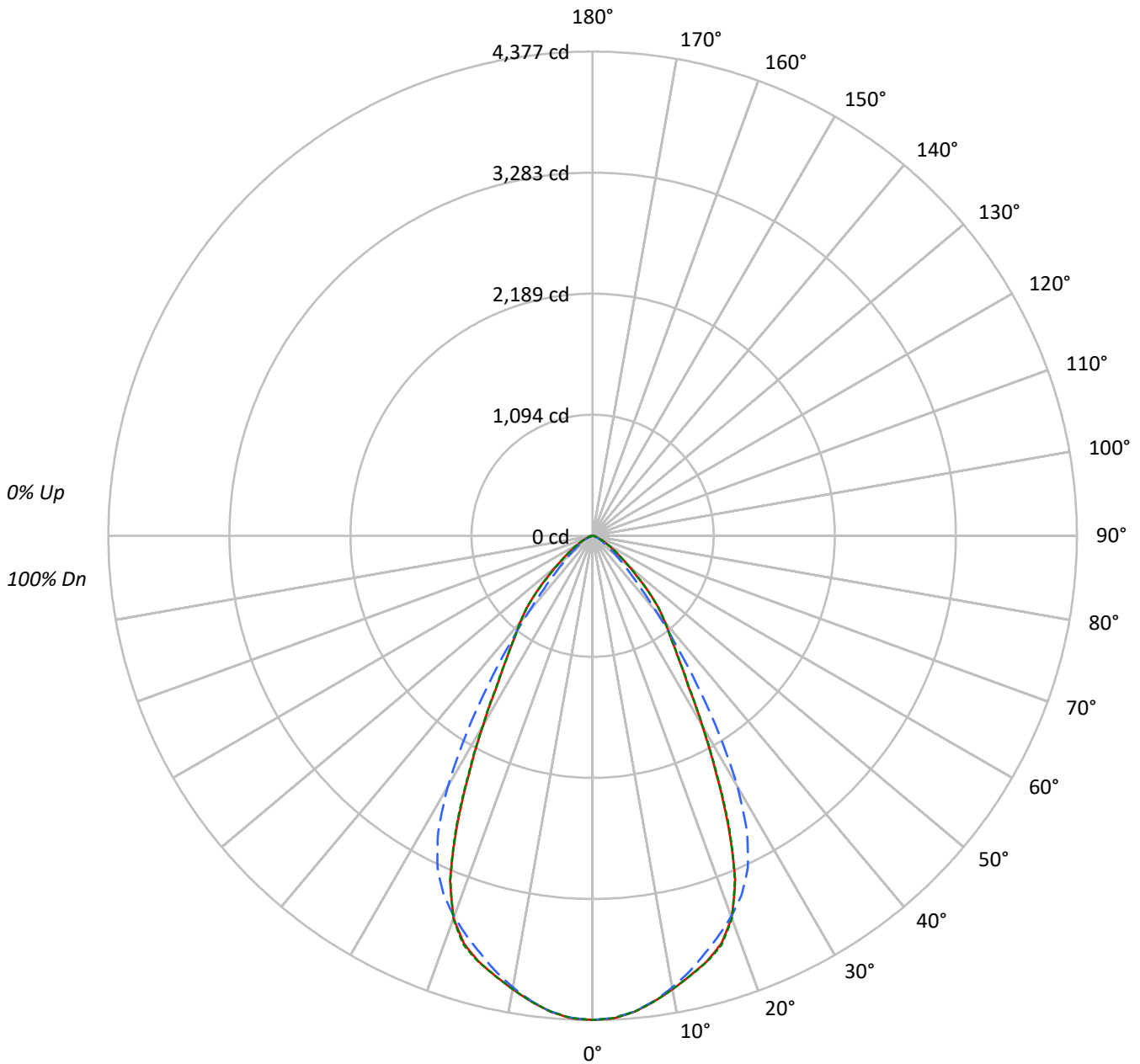
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4633.0 lumens
Efficiency: N/A
Efficacy: 59.4 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): 78
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					20					
RC	80					70					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	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°	422361	422361	422361
5°	418492	418231	418356
10°	407782	406155	407782
15°	397962	390790	398372
20°	377323	375906	378032
25°	309511	353161	311130
30°	220704	291764	221015
35°	159183	193331	159678
40°	127620	112329	127620
45°	97389	65553	96638
50°	64232	41851	64022
55°	43200	28093	42729
60°	29043	19182	29294
65°	19863	13562	19544
70°	13231	9733	13231
75°	8761	7195	8761
80°	6112	5390	6112
85°	4539	4539	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.9	8.8
10°-20°	1109.5	23.9
20°-30°	1387.1	29.9
30°-40°	933.1	20.1
40°-50°	492.7	10.6
50°-60°	200.2	4.3
60°-70°	74.3	1.6
70°-80°	24.0	0.5
80°-90°	5.2	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°	2903.5	62.7
0°-40°	3836.6	82.8
0°-60°	4529.6	97.8
0°-90°	4633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4377	4377	4377	4377	4377	
5°	4321	4317	4318	4318	4319	407
15°	3984	3951	3912	3949	3988	1116
25°	2907	3070	3317	3076	2922	1309
35°	1351	1419	1641	1422	1356	870
45°	714	678	480	675	708	547
55°	257	215	167	215	254	238
65°	87	70	59	70	86	90
75°	24	21	19	21	24	27
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4377.3	4377.3	4377.3	4377.3	4377.3
2.5°	4366.3	4363.5	4362.1	4362.1	4363.5
5°	4320.7	4316.6	4318.0	4318.0	4319.3
7.5°	4247.6	4246.2	4242.0	4247.6	4247.6
10°	4162.0	4155.1	4145.4	4156.4	4162.0
12.5°	4073.6	4052.9	4036.3	4052.9	4073.6
15°	3983.9	3950.8	3912.1	3949.4	3988.0
17.5°	3866.6	3833.4	3790.6	3840.3	3877.6
20°	3674.7	3677.4	3660.9	3674.7	3681.6
22.5°	3366.8	3429.0	3515.9	3430.3	3357.2
25°	2907.2	3070.1	3317.2	3075.6	2922.4
27.5°	2414.4	2621.4	3025.9	2633.8	2429.5
30°	1980.9	2164.5	2618.7	2176.9	1983.7
32.5°	1604.0	1740.7	2128.6	1757.3	1622.0
35°	1351.4	1419.1	1641.3	1421.8	1355.6
37.5°	1158.2	1158.2	1218.9	1163.7	1152.7
40°	1013.2	969.1	891.8	967.7	1013.2
42.5°	877.9	811.7	647.4	808.9	880.7
45°	713.7	677.8	480.4	675.0	708.2
47.5°	548.0	523.2	361.7	520.4	552.2
50°	427.9	389.3	278.8	386.5	426.5
52.5°	328.5	287.1	215.3	287.1	325.8
55°	256.8	215.3	167.0	215.3	254.0
57.5°	197.4	164.3	127.0	161.5	196.0
60°	150.5	122.9	99.4	122.9	151.8
62.5°	114.6	93.9	75.9	92.5	113.2
65°	87.0	70.4	59.4	70.4	85.6
67.5°	63.5	52.5	45.6	52.5	64.9
70°	46.9	40.0	34.5	38.7	46.9
72.5°	34.5	29.0	26.2	29.0	34.5
75°	23.5	20.7	19.3	20.7	23.5
77.5°	16.6	15.2	13.8	15.2	16.6
80°	11.0	9.7	9.7	11.0	11.0
82.5°	6.9	6.9	6.9	6.9	6.9
85°	4.1	4.1	4.1	4.1	4.1
87.5°	2.8	2.8	2.8	2.8	2.8
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)