

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: **LD4C40D010 EX4C409030 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: LD4C40D010 EX4C409030 4LCSQWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

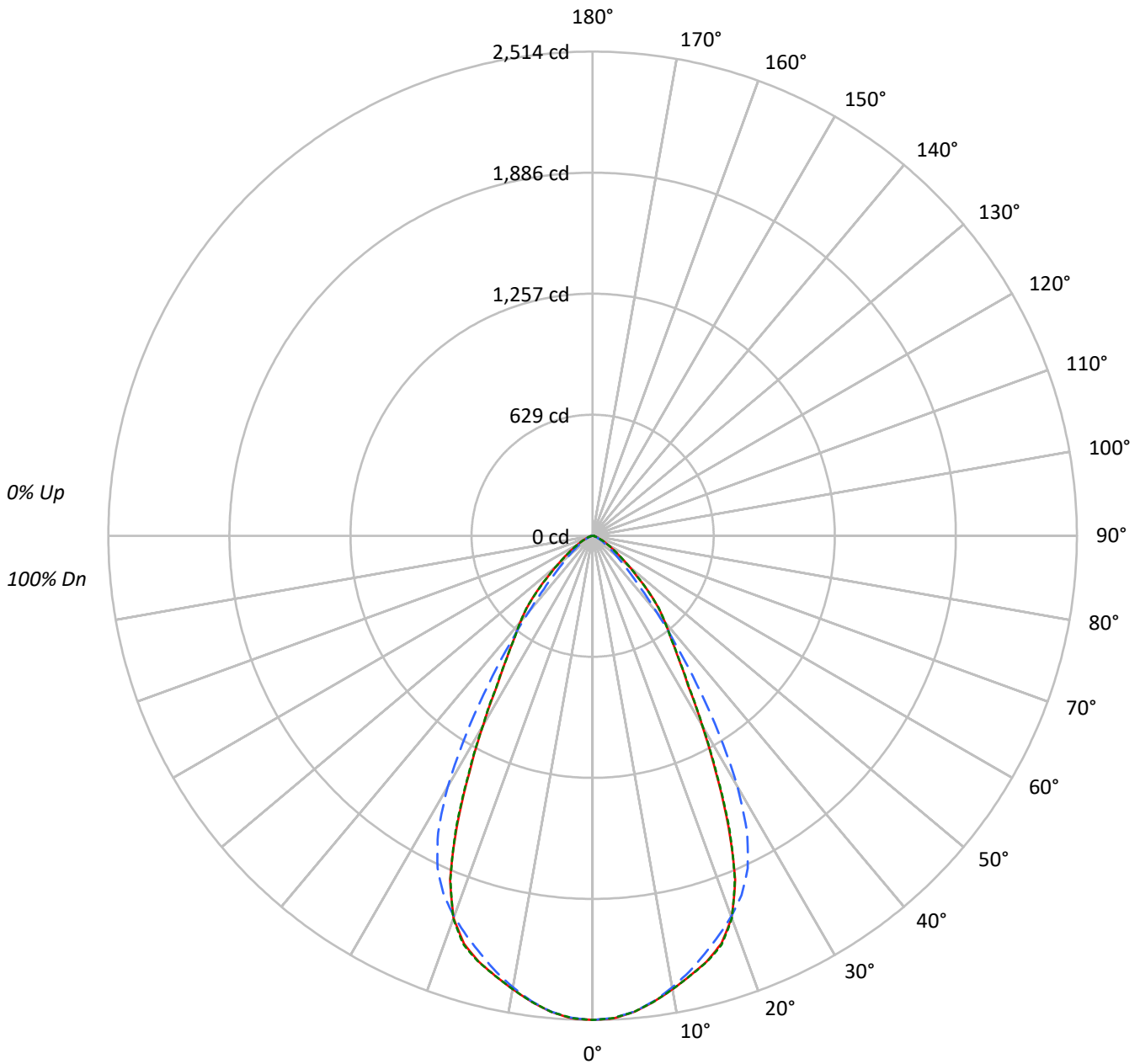
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2661.0 lumens
Efficiency: N/A
Efficacy: 56.6 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): 47
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C40D010 EX4C409030 4LCSQWH

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66	66	66	66
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49	49
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	242583	242583	242583
5°	240361	240216	240284
10°	234215	233274	234215
15°	228574	224459	228814
20°	216719	215908	217120
25°	177773	202835	178699
30°	126758	167569	126936
35°	91430	111042	91712
40°	73307	64515	73307
45°	55933	37648	55497
50°	36897	24048	36777
55°	24813	16133	24544
60°	16673	11019	16828
65°	11393	7785	11233
70°	7617	5586	7617
75°	5033	4138	5033
80°	3501	3056	3501
85°	2657	2657	2657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	8.8
10°-20°	637.3	23.9
20°-30°	796.7	29.9
30°-40°	535.9	20.1
40°-50°	283.0	10.6
50°-60°	115.0	4.3
60°-70°	42.6	1.6
70°-80°	13.8	0.5
80°-90°	3.0	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°	1667.7	62.7
0°-40°	2203.6	82.8
0°-60°	2601.6	97.8
0°-90°	2661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2482	2479	2480	2480	2481	234
15°	2288	2269	2247	2268	2291	641
25°	1670	1763	1905	1766	1678	752
35°	776	815	943	817	779	499
45°	410	389	276	388	407	314
55°	148	124	96	124	146	137
65°	50	40	34	40	49	51
75°	14	12	11	12	14	16
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2514.1	2514.1	2514.1	2514.1	2514.1
2.5°	2507.8	2506.2	2505.4	2505.4	2506.2
5°	2481.6	2479.3	2480.1	2480.1	2480.8
7.5°	2439.6	2438.8	2436.4	2439.6	2439.6
10°	2390.5	2386.5	2380.9	2387.3	2390.5
12.5°	2339.7	2327.8	2318.3	2327.8	2339.7
15°	2288.2	2269.2	2247.0	2268.4	2290.6
17.5°	2220.8	2201.8	2177.2	2205.7	2227.1
20°	2110.6	2112.2	2102.7	2110.6	2114.5
22.5°	1933.8	1969.5	2019.4	1970.2	1928.2
25°	1669.8	1763.3	1905.2	1766.5	1678.5
27.5°	1386.7	1505.6	1737.9	1512.8	1395.4
30°	1137.7	1243.2	1504.0	1250.3	1139.3
32.5°	921.3	999.8	1222.6	1009.3	931.6
35°	776.2	815.1	942.7	816.6	778.6
37.5°	665.2	665.2	700.1	668.4	662.0
40°	582.0	556.6	512.2	555.8	582.0
42.5°	504.3	466.2	371.8	464.6	505.8
45°	409.9	389.3	275.9	387.7	406.7
47.5°	314.8	300.5	207.7	298.9	317.1
50°	245.8	223.6	160.2	222.0	245.0
52.5°	188.7	164.9	123.7	164.9	187.1
55°	147.5	123.7	95.9	123.7	145.9
57.5°	113.4	94.3	72.9	92.8	112.6
60°	86.4	70.6	57.1	70.6	87.2
62.5°	65.8	53.9	43.6	53.1	65.0
65°	49.9	40.4	34.1	40.4	49.2
67.5°	36.5	30.1	26.2	30.1	37.3
70°	27.0	23.0	19.8	22.2	27.0
72.5°	19.8	16.6	15.1	16.6	19.8
75°	13.5	11.9	11.1	11.9	13.5
77.5°	9.5	8.7	7.9	8.7	9.5
80°	6.3	5.5	5.5	6.3	6.3
82.5°	4.0	4.0	4.0	4.0	4.0
85°	2.4	2.4	2.4	2.4	2.4
87.5°	1.6	1.6	1.6	1.6	1.6
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)