

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: **LD4C45D010 EX4C459027 4LCSQWLI**

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EX4C459027 4LCSQWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

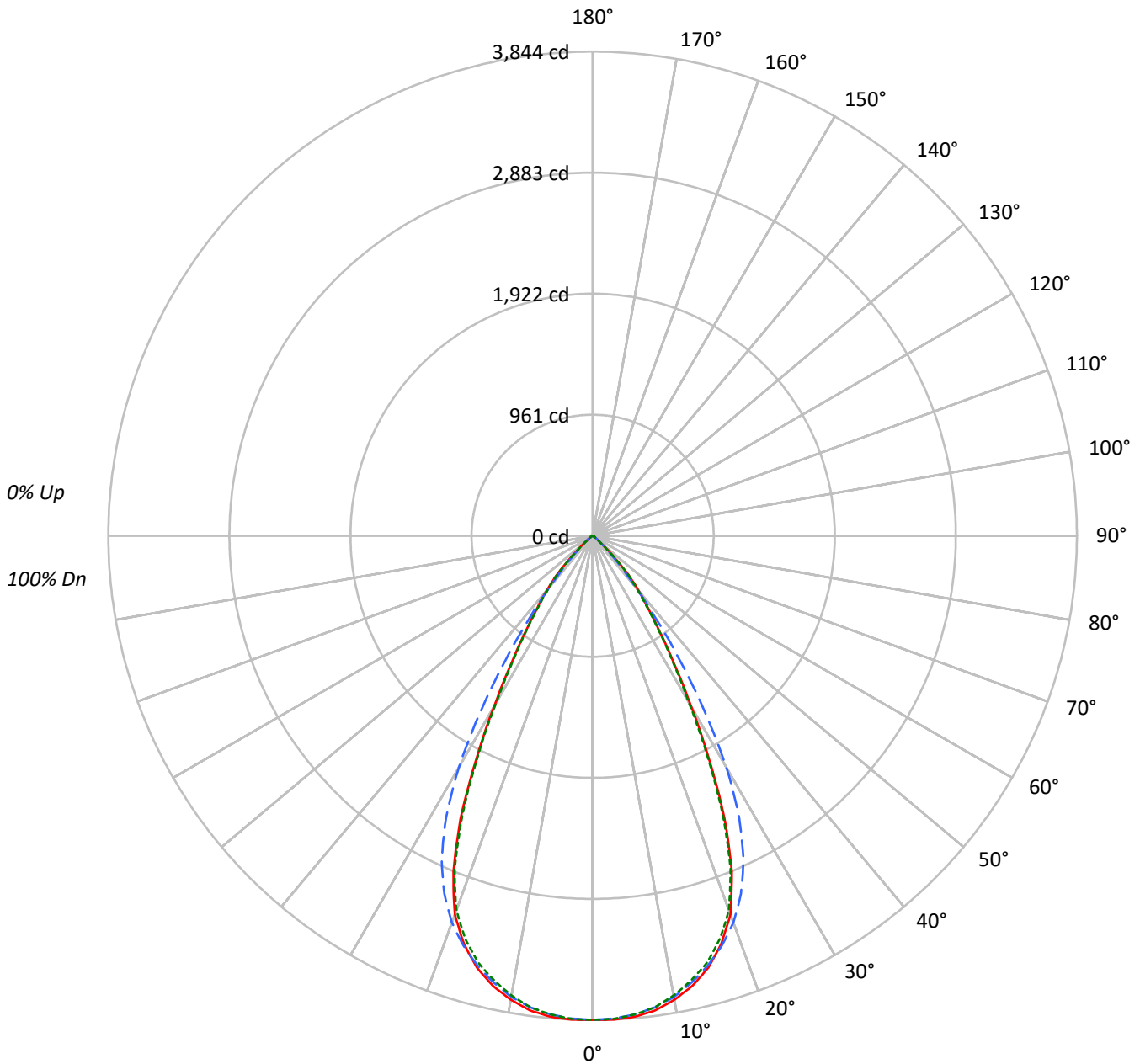
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3441.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	370874	370874	370874
5°	371264	369550	369550
10°	366386	364221	363094
15°	354489	352821	350433
20°	328303	335470	324678
25°	263966	301761	260495
30°	174232	236603	170098
35°	108898	142080	106919
40°	71065	65838	68294
45°	34223	26268	32285
50°	8616	10478	8091
55°	4761	4307	4609
60°	3242	2721	3068
65°	2215	2009	2215
70°	1749	1495	1749
75°	1305	1305	1305
80°	1000	1445	1445
85°	996	1993	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	10.5
10°-20°	987.1	28.7
20°-30°	1176.4	34.2
30°-40°	666.1	19.4
40°-50°	205.9	6.0
50°-60°	28.6	0.8
60°-70°	9.8	0.3
70°-80°	3.9	0.1
80°-90°	1.7	0.0
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°	2525.0	73.4
0°-40°	3191.2	92.7
0°-60°	3425.7	99.6
0°-90°	3441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3844	3844	3844	3844	3844	
5°	3833	3824	3815	3813	3815	363
15°	3549	3543	3532	3518	3508	990
25°	2479	2624	2834	2629	2447	1105
35°	924	1008	1206	1011	908	602
45°	251	292	192	284	237	207
55°	28	28	26	27	27	28
65°	10	10	9	10	10	10
75°	4	4	4	4	4	4
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3843.7	3843.7	3843.7	3843.7	3843.7
2.5°	3844.5	3838.4	3836.6	3834.8	3838.4
5°	3833.1	3824.2	3815.4	3812.8	3815.4
7.5°	3800.4	3791.6	3776.6	3773.0	3775.7
10°	3739.5	3731.5	3717.4	3709.4	3705.9
12.5°	3659.1	3645.9	3632.6	3623.8	3615.0
15°	3548.7	3542.6	3532.0	3517.8	3508.1
17.5°	3396.0	3404.8	3411.0	3382.7	3357.1
20°	3197.3	3230.0	3267.1	3209.7	3162.0
22.5°	2887.4	2981.0	3075.5	2966.9	2860.9
25°	2479.4	2624.2	2834.4	2628.7	2446.8
27.5°	2003.5	2187.2	2518.3	2188.1	1977.0
30°	1563.8	1752.7	2123.6	1728.0	1526.7
32.5°	1200.9	1342.1	1659.1	1321.0	1175.3
35°	924.5	1008.4	1206.2	1011.0	907.7
37.5°	718.8	761.1	811.5	746.1	697.6
40°	564.2	566.0	522.7	557.2	542.2
42.5°	418.5	416.8	321.4	406.2	408.8
45°	250.8	292.3	192.5	284.3	236.6
47.5°	119.2	165.1	115.7	156.3	110.4
50°	57.4	79.5	69.8	74.2	53.9
52.5°	38.9	40.6	39.7	38.9	37.1
55°	28.3	28.3	25.6	27.4	27.4
57.5°	21.2	21.2	18.5	20.3	20.3
60°	16.8	15.9	14.1	15.9	15.9
62.5°	12.4	12.4	10.6	12.4	12.4
65°	9.7	9.7	8.8	9.7	9.7
67.5°	7.9	7.9	6.2	7.9	7.1
70°	6.2	6.2	5.3	6.2	6.2
72.5°	4.4	4.4	4.4	4.4	4.4
75°	3.5	3.5	3.5	3.5	3.5
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.8	1.8	2.6	2.6	2.6
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	1.8	1.8	1.8
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)