

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

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: -

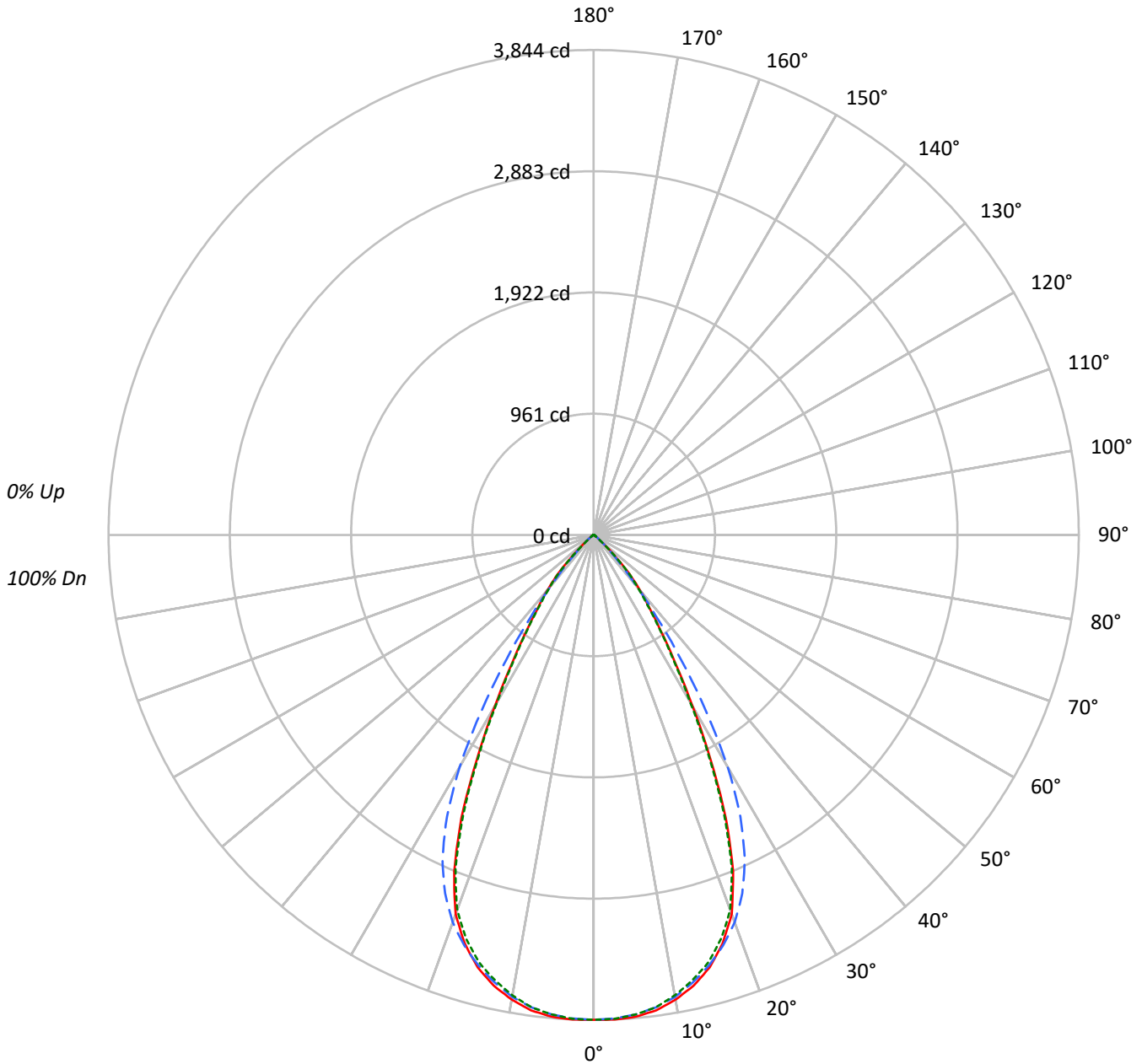
Summary

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 (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																			
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)