

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 EX4C459040 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 EX4C459040 4LCSQWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

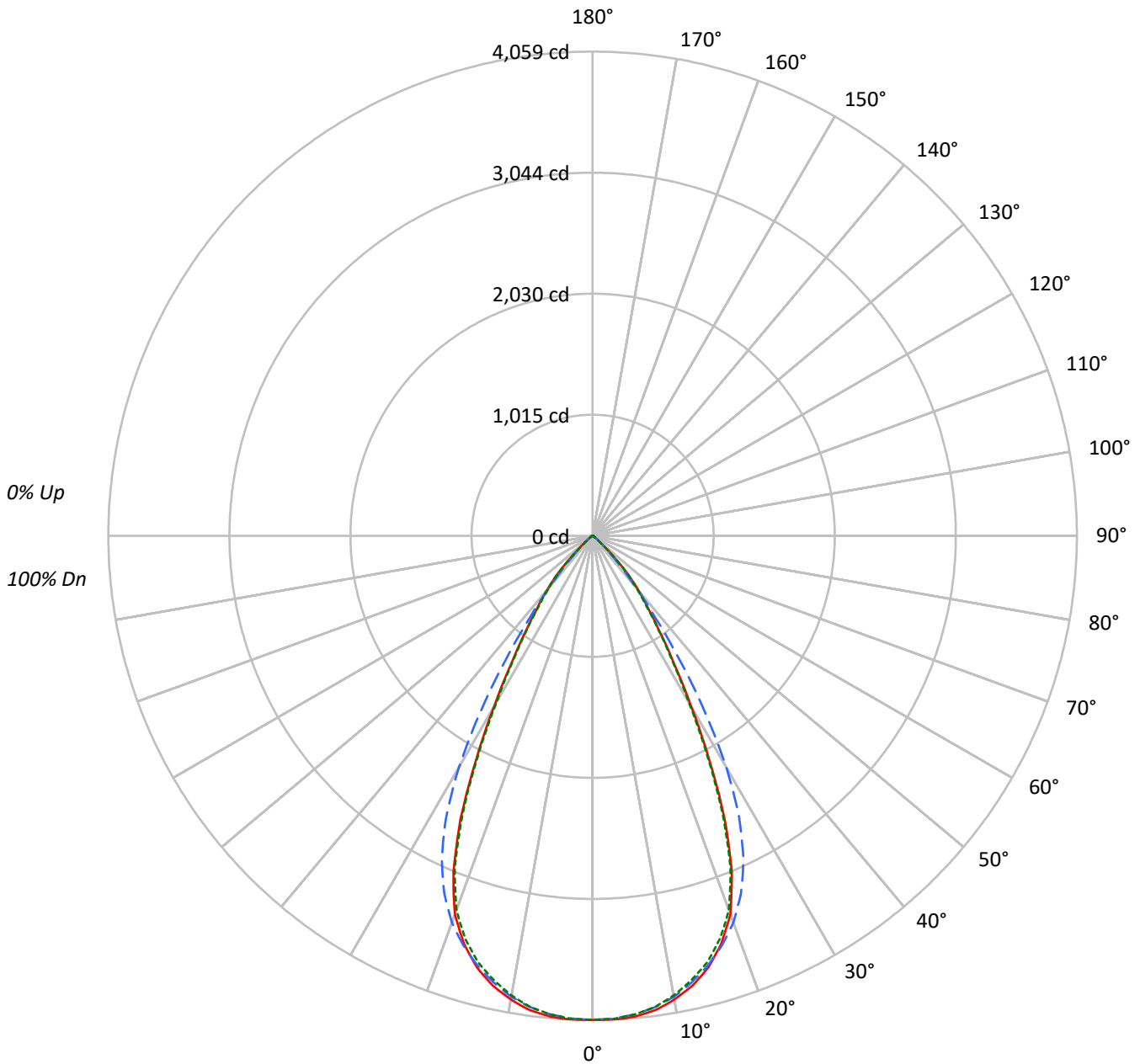
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633.0 lumens
Efficiency: N/A
Efficacy: 73.2 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C45D010 EX4C459040 4LCSQWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C45D010 EX4C459040 4LCSQWLI

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°	391562	391562	391562
5°	391972	390171	390171
10°	386825	384542	383356
15°	374278	372500	369992
20°	346621	354189	342791
25°	278701	318603	275028
30°	183947	249805	179591
35°	114976	150007	112891
40°	75033	69516	72098
45°	36134	27728	34087
50°	9097	11048	8541
55°	5013	4542	4862
60°	3416	2875	3242
65°	2352	2123	2352
70°	1834	1580	1834
75°	1379	1379	1379
80°	1056	1556	1556
85°	996	2103	2103



TEST NUMBER: P#

CATALOG NUMBER: LD4C45D010 EX4C459040 4LCSQWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	10.5
10°-20°	1042.2	28.7
20°-30°	1242.0	34.2
30°-40°	703.3	19.4
40°-50°	217.4	6.0
50°-60°	30.2	0.8
60°-70°	10.3	0.3
70°-80°	4.1	0.1
80°-90°	1.8	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°	2665.9	73.4
0°-40°	3369.2	92.7
0°-60°	3616.9	99.6
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4058	4058	4058	4058	4058	
5°	4047	4038	4028	4026	4028	383
15°	3747	3740	3729	3714	3704	1045
25°	2618	2771	2993	2775	2583	1167
35°	976	1065	1274	1067	958	635
45°	265	309	203	300	250	219
55°	30	30	27	29	29	29
65°	10	10	9	10	10	11
75°	4	4	4	4	4	4
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C45D010 EX4C459040 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4058.1	4058.1	4058.1	4058.1	4058.1
2.5°	4059.1	4052.5	4050.7	4048.8	4052.5
5°	4046.9	4037.6	4028.3	4025.5	4028.3
7.5°	4012.4	4003.1	3987.3	3983.5	3986.3
10°	3948.1	3939.7	3924.8	3916.4	3912.7
12.5°	3863.3	3849.3	3835.3	3826.0	3816.7
15°	3746.8	3740.2	3729.0	3714.1	3703.9
17.5°	3585.5	3594.8	3601.3	3571.5	3544.5
20°	3375.7	3410.2	3449.4	3388.8	3338.4
22.5°	3048.5	3147.3	3247.1	3132.4	3020.5
25°	2617.8	2770.7	2992.6	2775.3	2583.3
27.5°	2115.3	2309.2	2658.8	2310.1	2087.3
30°	1651.0	1850.5	2242.1	1824.4	1611.9
32.5°	1267.9	1417.0	1751.7	1394.7	1240.8
35°	976.1	1064.6	1273.5	1067.4	958.4
37.5°	758.9	803.6	856.7	787.8	736.5
40°	595.7	597.6	551.9	588.3	572.4
42.5°	441.9	440.0	339.3	428.8	431.6
45°	264.8	308.6	203.2	300.2	249.8
47.5°	125.9	174.3	122.1	165.0	116.5
50°	60.6	83.9	73.6	78.3	56.9
52.5°	41.0	42.9	42.0	41.0	39.2
55°	29.8	29.8	27.0	28.9	28.9
57.5°	22.4	22.4	19.6	21.4	21.4
60°	17.7	16.8	14.9	16.8	16.8
62.5°	13.1	13.1	11.2	13.1	13.1
65°	10.3	10.3	9.3	10.3	10.3
67.5°	8.4	8.4	6.5	8.4	7.5
70°	6.5	6.5	5.6	6.5	6.5
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	2.8	2.8	2.8
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	1.9	1.9	1.9
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)