

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: P858120

Luminaire Tested: **LD4C45D010 EU4459030 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C45D010 EU4459030 4LBMDSWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

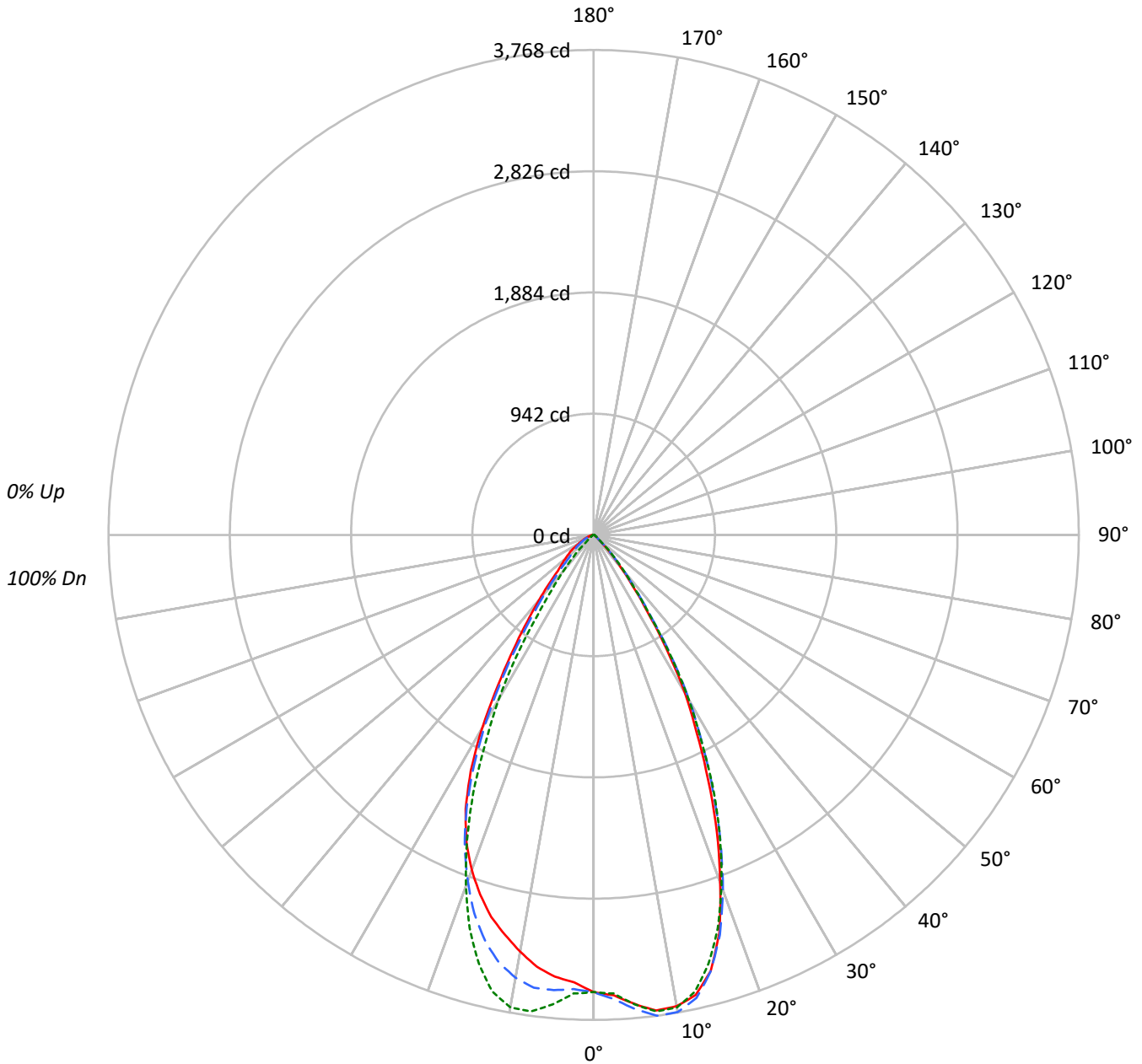
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	436376	436376	436376
5°	451238	451534	424859
10°	463741	464951	410049
15°	446211	438478	390859
20°	375702	379205	362039
25°	285409	299899	318687
30°	200730	209001	245217
35°	108298	113397	162259
40°	52250	57703	105269
45°	18590	25349	68437
50°	6976	8830	54834
55°	5205	6254	45301
60°	4177	4767	32851
65°	3546	4244	25436
70°	2622	3484	20079
75°	2326	3465	15000
80°	1698	3467	10329
85°	0	3383	6907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	11.0
10°-20°	933.0	29.5
20°-30°	1012.1	32.0
30°-40°	561.5	17.8
40°-50°	178.9	5.7
50°-60°	72.1	2.3
60°-70°	36.5	1.2
70°-80°	15.1	0.5
80°-90°	3.1	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°	2290.9	72.5
0°-40°	2852.4	90.3
0°-60°	3103.4	98.3
0°-90°	3158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3552	3552	3552	3552	3552	
5°	3659	3698	3661	3550	3445	352
15°	3508	3511	3448	3263	3073	959
25°	2106	2193	2212	2332	2351	962
35°	722	780	756	999	1082	479
45°	107	126	146	326	394	103
55°	24	24	29	156	212	22
65°	12	12	15	70	88	12
75°	5	5	7	24	32	6
85°	0	0	2	5	5	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0	3552.0
2.5°	3581.2	3612.8	3610.4	3586.1	3566.6	3559.3	3532.6	3501.0	3479.1
5°	3659.0	3697.9	3697.9	3678.5	3661.4	3620.1	3549.6	3481.5	3445.1
7.5°	3727.1	3766.0	3768.4	3753.8	3734.4	3666.3	3549.6	3440.2	3384.3
10°	3717.4	3746.5	3763.6	3749.0	3727.1	3637.1	3493.7	3347.8	3287.0
12.5°	3661.4	3688.2	3685.8	3663.9	3634.7	3542.3	3401.3	3250.6	3182.5
15°	3508.3	3522.9	3510.7	3486.4	3447.5	3377.0	3262.7	3133.9	3073.1
17.5°	3243.3	3262.7	3257.9	3219.0	3204.4	3136.3	3082.8	2983.1	2929.6
20°	2873.7	2934.5	2934.5	2905.3	2900.5	2854.3	2861.6	2808.1	2769.2
22.5°	2501.7	2555.2	2572.3	2560.1	2569.8	2547.9	2616.0	2601.4	2582.0
25°	2105.5	2158.9	2193.0	2188.1	2212.4	2212.4	2331.6	2360.7	2351.0
27.5°	1733.5	1784.5	1823.4	1833.2	1818.6	1845.3	2008.2	2066.6	2066.6
30°	1415.0	1456.3	1492.8	1492.8	1473.3	1492.8	1665.4	1733.5	1728.6
32.5°	1055.2	1101.4	1135.4	1130.5	1113.5	1140.3	1322.6	1390.7	1373.6
35°	722.1	753.7	780.4	770.7	756.1	799.9	999.2	1084.3	1081.9
37.5°	488.7	517.9	534.9	527.6	522.7	573.8	756.1	850.9	846.1
40°	325.8	345.2	357.4	355.0	359.8	403.6	568.9	656.4	656.4
42.5°	206.7	218.8	231.0	231.0	243.1	289.3	432.8	508.1	508.1
45°	107.0	114.3	126.4	133.7	145.9	194.5	325.8	389.0	393.9
47.5°	51.1	53.5	58.3	60.8	70.5	121.6	250.4	318.5	333.1
50°	36.5	38.9	38.9	38.9	46.2	92.4	211.5	274.7	286.9
52.5°	29.2	29.2	29.2	31.6	36.5	77.8	182.3	238.3	248.0
55°	24.3	24.3	24.3	24.3	29.2	63.2	155.6	204.2	211.5
57.5°	19.4	19.4	19.4	19.4	24.3	51.1	128.9	162.9	165.3
60°	17.0	17.0	17.0	17.0	19.4	43.8	104.5	133.7	133.7
62.5°	14.6	14.6	14.6	14.6	17.0	36.5	87.5	109.4	107.0
65°	12.2	12.2	12.2	12.2	14.6	29.2	70.5	87.5	87.5
67.5°	9.7	9.7	9.7	9.7	12.2	24.3	55.9	70.5	70.5
70°	7.3	7.3	7.3	7.3	9.7	19.4	46.2	55.9	55.9
72.5°	7.3	7.3	7.3	7.3	7.3	14.6	34.0	43.8	41.3
75°	4.9	4.9	4.9	4.9	7.3	12.2	24.3	31.6	31.6
77.5°	4.9	4.9	4.9	4.9	4.9	9.7	19.4	21.9	21.9
80°	2.4	2.4	2.4	2.4	4.9	7.3	12.2	14.6	14.6
82.5°	0.0	2.4	0.0	2.4	2.4	4.9	9.7	9.7	9.7
85°	0.0	0.0	0.0	0.0	2.4	2.4	4.9	7.3	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	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)