

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: P858183

Luminaire Tested: **LD4C45D010 EU4459050 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858183
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 EU4459050 4LBMDSWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

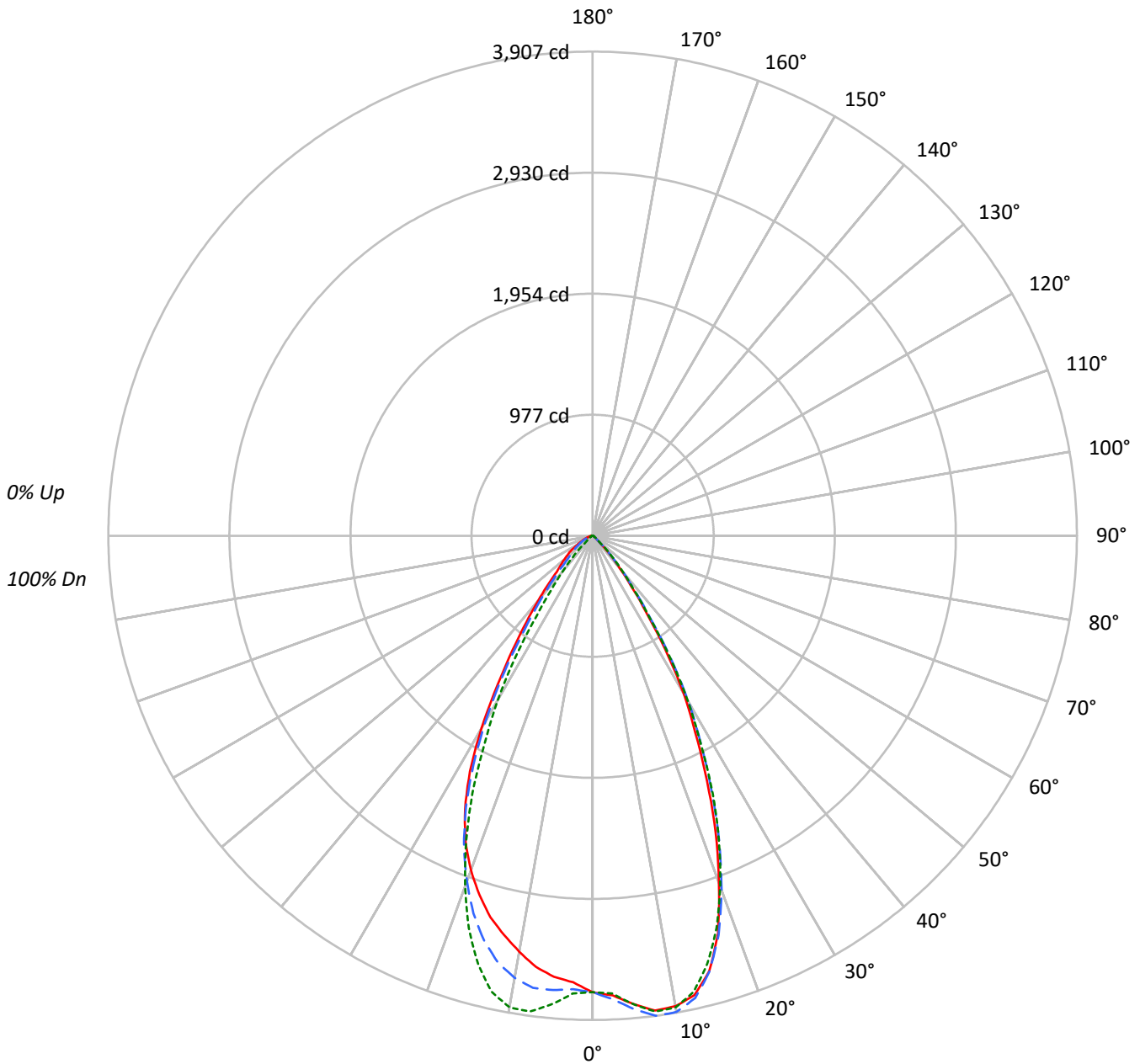
Lumens per Lamp: N/A
Luminaire Lumens: 3274.0 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	452408	452408	452408
5°	467813	468121	440460
10°	480769	482029	425119
15°	462593	454580	405219
20°	389508	393129	375336
25°	295887	310920	330399
30°	208107	216675	254225
35°	112272	117567	168214
40°	54174	59819	109134
45°	19268	26270	70938
50°	7225	9155	56841
55°	5398	6468	46972
60°	4324	4963	34055
65°	3663	4390	26366
70°	2730	3628	20834
75°	2373	3607	15569
80°	1769	3537	10683
85°	0	3524	7048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	11.0
10°-20°	967.3	29.5
20°-30°	1049.2	32.0
30°-40°	582.1	17.8
40°-50°	185.4	5.7
50°-60°	74.7	2.3
60°-70°	37.8	1.2
70°-80°	15.6	0.5
80°-90°	3.2	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°	2375.0	72.5
0°-40°	2957.2	90.3
0°-60°	3217.3	98.3
0°-90°	3274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3682	3682	3682	3682	3682	
5°	3793	3834	3796	3680	3572	365
15°	3637	3640	3574	3383	3186	995
25°	2183	2274	2294	2417	2437	997
35°	749	809	784	1036	1122	497
45°	111	131	151	338	408	106
55°	25	25	30	161	219	23
65°	13	13	15	73	91	12
75°	5	5	8	25	33	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°	3682.5	3682.5	3682.5	3682.5	3682.5	3682.5	3682.5	3682.5	3682.5
2.5°	3712.8	3745.5	3743.0	3717.8	3697.6	3690.1	3662.3	3629.6	3606.9
5°	3793.4	3833.7	3833.7	3813.6	3795.9	3753.1	3680.0	3609.4	3571.6
7.5°	3864.0	3904.3	3906.8	3891.7	3871.6	3801.0	3680.0	3566.6	3508.6
10°	3853.9	3884.2	3901.8	3886.7	3864.0	3770.7	3622.0	3470.8	3407.8
12.5°	3795.9	3823.7	3821.1	3798.5	3768.2	3672.4	3526.2	3370.0	3299.4
15°	3637.1	3652.3	3639.7	3614.5	3574.1	3501.0	3382.6	3249.0	3186.0
17.5°	3362.4	3382.6	3377.5	3337.2	3322.1	3251.5	3196.0	3092.7	3037.3
20°	2979.3	3042.3	3042.3	3012.0	3007.0	2959.1	2966.7	2911.2	2870.9
22.5°	2593.6	2649.1	2666.7	2654.1	2664.2	2641.5	2712.1	2697.0	2676.8
25°	2182.8	2238.2	2273.5	2268.5	2293.7	2293.7	2417.2	2447.4	2437.4
27.5°	1797.1	1850.1	1890.4	1900.5	1885.4	1913.1	2082.0	2142.5	2142.5
30°	1467.0	1509.8	1547.6	1547.6	1527.4	1547.6	1726.6	1797.1	1792.1
32.5°	1093.9	1141.8	1177.1	1172.1	1154.4	1182.1	1371.2	1441.8	1424.1
35°	748.6	781.4	809.1	799.0	783.9	829.3	1035.9	1124.2	1121.6
37.5°	506.6	536.9	554.5	547.0	541.9	594.8	783.9	882.2	877.1
40°	337.8	357.9	370.5	368.0	373.0	418.4	589.8	680.5	680.5
42.5°	214.2	226.8	239.5	239.5	252.1	299.9	448.7	526.8	526.8
45°	110.9	118.5	131.1	138.6	151.2	201.6	337.8	403.3	408.3
47.5°	52.9	55.5	60.5	63.0	73.1	126.0	259.6	330.2	345.3
50°	37.8	40.3	40.3	40.3	47.9	95.8	219.3	284.8	297.4
52.5°	30.2	30.2	30.2	32.8	37.8	80.7	189.0	247.0	257.1
55°	25.2	25.2	25.2	25.2	30.2	65.5	161.3	211.7	219.3
57.5°	20.2	20.2	20.2	20.2	25.2	52.9	133.6	168.9	171.4
60°	17.6	17.6	17.6	17.6	20.2	45.4	108.4	138.6	138.6
62.5°	15.1	15.1	15.1	15.1	17.6	37.8	90.7	113.4	110.9
65°	12.6	12.6	12.6	12.6	15.1	30.2	73.1	90.7	90.7
67.5°	10.1	10.1	10.1	10.1	12.6	25.2	58.0	73.1	73.1
70°	7.6	7.6	7.6	7.6	10.1	20.2	47.9	58.0	58.0
72.5°	7.6	7.6	7.6	7.6	7.6	15.1	35.3	45.4	42.8
75°	5.0	5.0	5.0	5.0	7.6	12.6	25.2	32.8	32.8
77.5°	5.0	5.0	5.0	5.0	5.0	10.1	20.2	22.7	22.7
80°	2.5	2.5	2.5	2.5	5.0	7.6	12.6	15.1	15.1
82.5°	0.0	2.5	0.0	2.5	2.5	5.0	10.1	10.1	10.1
85°	0.0	0.0	0.0	0.0	2.5	2.5	5.0	7.6	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
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)