

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: P859077

Luminaire Tested: **LD4C55D010 EU4559030 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EU4559030 4LBMDDWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

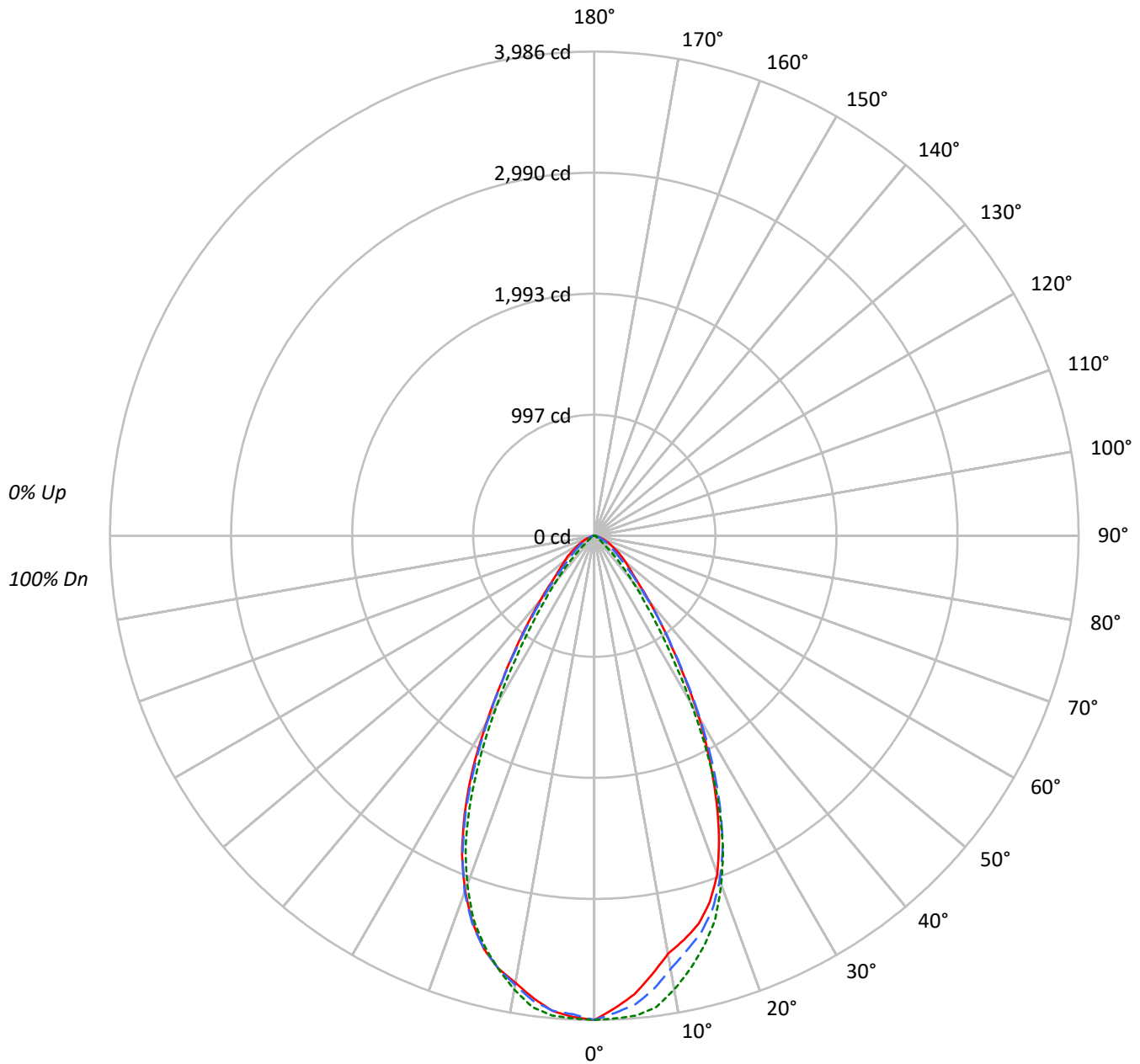
Lumens per Lamp: N/A
Luminaire Lumens: 3629.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	489743	489743	489743
5°	467319	488962	484399
10°	435859	473109	466198
15°	420888	444380	447508
20°	387154	399234	406477
25°	320883	326725	342585
30°	244111	225769	251090
35°	165274	135264	167119
40°	112566	77509	109102
45°	78079	39040	73805
50°	63549	15883	59421
55°	51427	9896	46822
60°	40836	7568	37053
65°	32209	6250	28634
70°	24318	5532	22127
75°	17515	4367	16091
80°	13088	4386	10895
85°	8739	4370	8739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	10.1
10°-20°	963.0	26.5
20°-30°	1104.9	30.4
30°-40°	671.2	18.5
40°-50°	287.7	7.9
50°-60°	138.0	3.8
60°-70°	67.1	1.8
70°-80°	24.9	0.7
80°-90°	5.8	0.2
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°	2434.4	67.1
0°-40°	3105.6	85.6
0°-60°	3531.3	97.3
0°-90°	3629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3629.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3986	3986	3986	3986	3986	
5°	3789	3872	3965	3925	3928	352
15°	3309	3386	3494	3515	3518	921
25°	2367	2444	2410	2503	2527	1074
35°	1102	1117	902	1090	1114	706
45°	449	400	225	360	425	365
55°	240	178	46	160	219	217
65°	111	74	22	68	98	112
75°	37	25	9	22	34	41
85°	6	6	3	3	6	8
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°	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4
2.5°	3891.0	3934.1	3931.0	3967.9	3977.2	3967.9	3943.3	3967.9	3964.9
5°	3789.4	3838.6	3872.5	3934.1	3964.9	3958.7	3924.8	3931.0	3927.9
7.5°	3641.6	3703.2	3761.7	3854.0	3912.5	3909.4	3860.2	3851.0	3838.6
10°	3493.9	3552.4	3620.1	3715.5	3792.5	3804.8	3755.5	3743.2	3737.1
12.5°	3407.7	3453.9	3500.0	3583.1	3650.9	3675.5	3647.8	3650.9	3647.8
15°	3309.2	3355.4	3386.1	3447.7	3493.9	3527.7	3515.4	3533.9	3518.5
17.5°	3161.4	3216.8	3229.1	3275.3	3309.2	3330.7	3343.0	3361.5	3336.9
20°	2961.3	3004.4	3019.8	3038.3	3053.7	3081.4	3118.3	3136.8	3109.1
22.5°	2681.2	2764.3	2761.2	2752.0	2767.4	2776.6	2835.1	2865.9	2844.4
25°	2367.2	2453.4	2444.2	2407.2	2410.3	2428.8	2502.7	2542.7	2527.3
27.5°	2037.8	2117.9	2096.3	2025.5	2007.1	2034.8	2130.2	2176.4	2167.1
30°	1720.8	1773.1	1739.2	1613.0	1591.5	1625.3	1748.5	1794.7	1770.0
32.5°	1379.1	1419.1	1403.7	1249.8	1212.9	1246.7	1391.4	1434.5	1406.8
35°	1102.0	1139.0	1117.4	935.8	901.9	938.9	1089.7	1139.0	1114.3
37.5°	883.5	911.2	883.5	689.5	658.8	695.7	840.4	905.0	874.2
40°	701.9	723.4	686.5	507.9	483.3	501.8	637.2	701.9	680.3
42.5°	554.1	569.5	529.5	372.5	344.8	369.4	480.2	538.7	526.4
45°	449.4	449.4	400.2	258.6	224.7	249.3	360.2	421.7	424.8
47.5°	384.8	375.6	314.0	172.4	129.3	163.2	286.3	350.9	360.2
50°	332.5	320.1	258.6	126.2	83.1	117.0	237.0	301.7	310.9
52.5°	286.3	277.0	215.5	98.5	58.5	89.3	200.1	261.7	270.9
55°	240.1	234.0	178.5	77.0	46.2	67.7	160.1	212.4	218.6
57.5°	197.0	187.8	144.7	64.6	36.9	55.4	132.4	175.5	181.6
60°	166.2	157.0	117.0	52.3	30.8	43.1	107.7	144.7	150.8
62.5°	138.5	129.3	95.4	43.1	24.6	36.9	86.2	117.0	123.1
65°	110.8	104.7	73.9	33.9	21.5	27.7	67.7	92.3	98.5
67.5°	89.3	83.1	58.5	27.7	18.5	21.5	52.3	73.9	80.0
70°	67.7	61.6	43.1	21.5	15.4	18.5	40.0	55.4	61.6
72.5°	49.3	46.2	33.9	18.5	12.3	15.4	27.7	40.0	46.2
75°	36.9	33.9	24.6	12.3	9.2	12.3	21.5	30.8	33.9
77.5°	24.6	24.6	18.5	9.2	9.2	9.2	15.4	21.5	21.5
80°	18.5	15.4	12.3	6.2	6.2	6.2	9.2	15.4	15.4
82.5°	12.3	9.2	9.2	6.2	6.2	6.2	6.2	9.2	9.2
85°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)