

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: P859209

Luminaire Tested: **LD4C60D010 EU4609035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859209
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: LD4C60D010 EU4609035 4LBMDSWGPH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

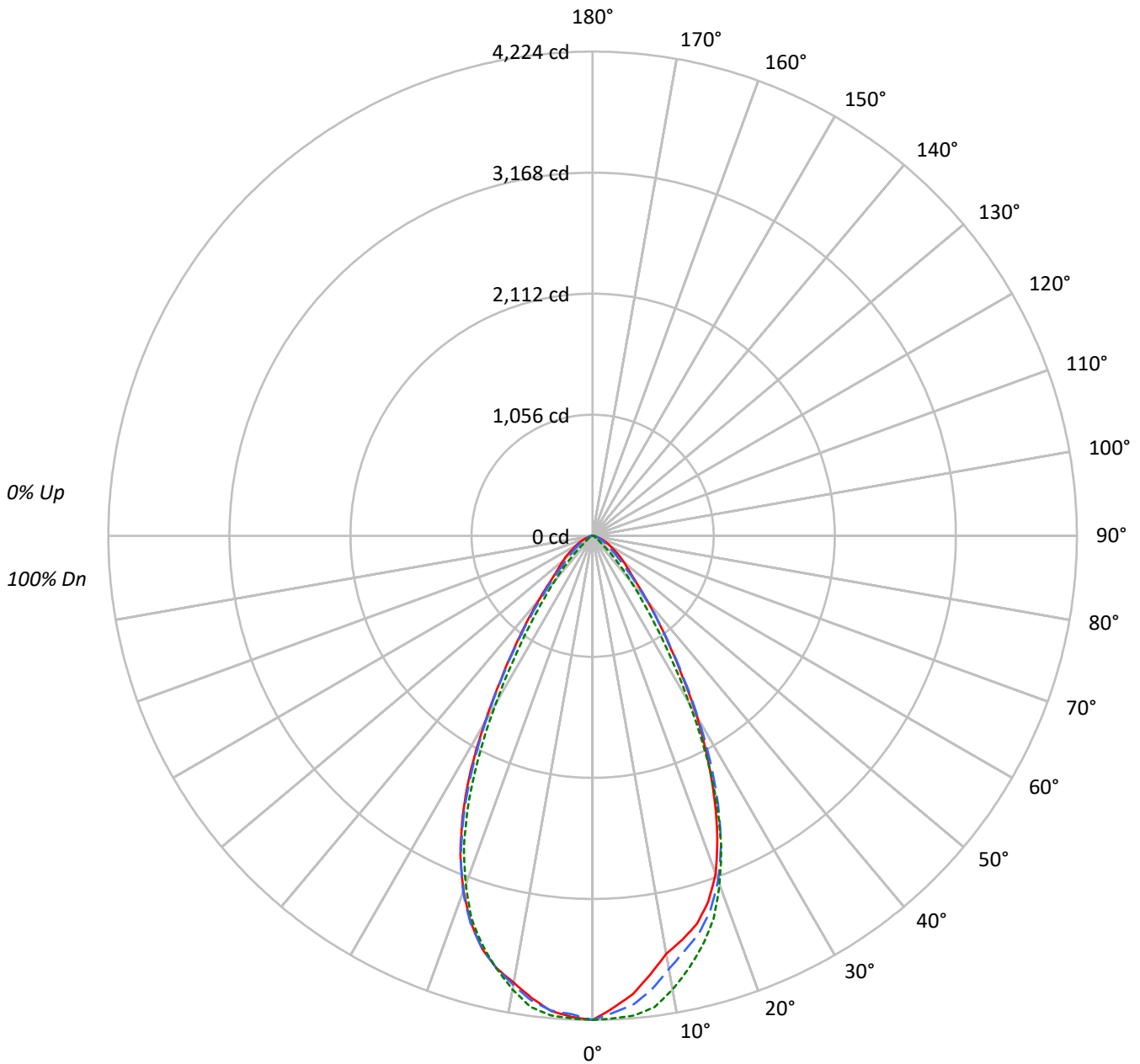
Lumens per Lamp: N/A
Luminaire Lumens: 3845.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	518896	518896	518896
5°	495129	518054	513232
10°	461795	501265	493942
15°	445931	470822	474141
20°	410203	422990	430664
25°	339983	346177	362972
30°	258637	239203	266042
35°	175112	143317	177077
40°	119254	82127	115597
45°	82735	41368	78201
50°	67315	16838	62957
55°	54490	10474	49606
60°	43269	8010	39264
65°	34128	6628	30349
70°	25791	5855	23420
75°	18560	4652	17041
80°	13867	4599	11532
85°	9162	4652	9162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	10.1
10°-20°	1020.3	26.5
20°-30°	1170.7	30.4
30°-40°	711.2	18.5
40°-50°	304.8	7.9
50°-60°	146.2	3.8
60°-70°	71.1	1.8
70°-80°	26.4	0.7
80°-90°	6.1	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°	2579.3	67.1
0°-40°	3290.5	85.6
0°-60°	3741.5	97.3
0°-90°	3845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4224	4224	4224	4224	4224	
5°	4015	4103	4201	4158	4162	373
15°	3506	3588	3702	3725	3728	976
25°	2508	2590	2554	2652	2678	1138
35°	1168	1184	956	1155	1181	748
45°	476	424	238	382	450	387
55°	254	189	49	170	232	230
65°	117	78	23	72	104	119
75°	39	26	10	23	36	43
85°	6	6	3	3	6	9
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°	4223.7	4223.7	4223.7	4223.7	4223.7	4223.7	4223.7	4223.7	4223.7
2.5°	4122.6	4168.2	4165.0	4204.1	4213.9	4204.1	4178.0	4204.1	4200.8
5°	4014.9	4067.1	4103.0	4168.2	4200.8	4194.3	4158.4	4165.0	4161.7
7.5°	3858.4	3923.6	3985.6	4083.4	4145.4	4142.1	4090.0	4080.2	4067.1
10°	3701.8	3763.8	3835.6	3936.7	4018.2	4031.2	3979.1	3966.0	3959.5
12.5°	3610.5	3659.4	3708.4	3796.4	3868.2	3894.3	3864.9	3868.2	3864.9
15°	3506.1	3555.1	3587.7	3652.9	3701.8	3737.7	3724.7	3744.2	3727.9
17.5°	3349.6	3408.3	3421.3	3470.3	3506.1	3529.0	3542.0	3561.6	3535.5
20°	3137.6	3183.2	3199.6	3219.1	3235.4	3264.8	3303.9	3323.5	3294.1
22.5°	2840.8	2928.9	2925.6	2915.8	2932.1	2941.9	3003.9	3036.5	3013.7
25°	2508.1	2599.4	2589.7	2550.5	2553.8	2573.3	2651.6	2694.0	2677.7
27.5°	2159.1	2243.9	2221.1	2146.1	2126.5	2155.9	2257.0	2305.9	2296.1
30°	1823.2	1878.6	1842.8	1709.0	1686.2	1722.1	1852.5	1901.5	1875.4
32.5°	1461.2	1503.6	1487.3	1324.2	1285.0	1320.9	1474.2	1519.9	1490.5
35°	1167.6	1206.8	1183.9	991.5	955.6	994.8	1154.6	1206.8	1180.7
37.5°	936.1	965.4	936.1	730.6	698.0	737.1	890.4	958.9	926.3
40°	743.6	766.5	727.3	538.2	512.1	531.6	675.1	743.6	720.8
42.5°	587.1	603.4	561.0	394.6	365.3	391.4	508.8	570.8	557.7
45°	476.2	476.2	424.0	274.0	238.1	264.2	381.6	446.8	450.1
47.5°	407.7	397.9	332.7	182.6	137.0	172.9	303.3	371.8	381.6
50°	352.2	339.2	274.0	133.7	88.1	123.9	251.1	319.6	329.4
52.5°	303.3	293.5	228.3	104.4	62.0	94.6	212.0	277.2	287.0
55°	254.4	247.9	189.2	81.5	48.9	71.8	169.6	225.0	231.6
57.5°	208.7	199.0	153.3	68.5	39.1	58.7	140.2	185.9	192.4
60°	176.1	166.3	123.9	55.4	32.6	45.7	114.2	153.3	159.8
62.5°	146.8	137.0	101.1	45.7	26.1	39.1	91.3	123.9	130.5
65°	117.4	110.9	78.3	35.9	22.8	29.4	71.8	97.8	104.4
67.5°	94.6	88.1	62.0	29.4	19.6	22.8	55.4	78.3	84.8
70°	71.8	65.2	45.7	22.8	16.3	19.6	42.4	58.7	65.2
72.5°	52.2	48.9	35.9	19.6	13.0	16.3	29.4	42.4	48.9
75°	39.1	35.9	26.1	13.0	9.8	13.0	22.8	32.6	35.9
77.5°	26.1	26.1	19.6	9.8	9.8	9.8	16.3	22.8	22.8
80°	19.6	16.3	13.0	6.5	6.5	6.5	9.8	16.3	16.3
82.5°	13.0	9.8	9.8	6.5	6.5	6.5	6.5	9.8	9.8
85°	6.5	6.5	6.5	3.3	3.3	3.3	3.3	6.5	6.5
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)