

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: P859208

Luminaire Tested: **LD4C60D010 EU4609035 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859208
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 4LBMDDWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

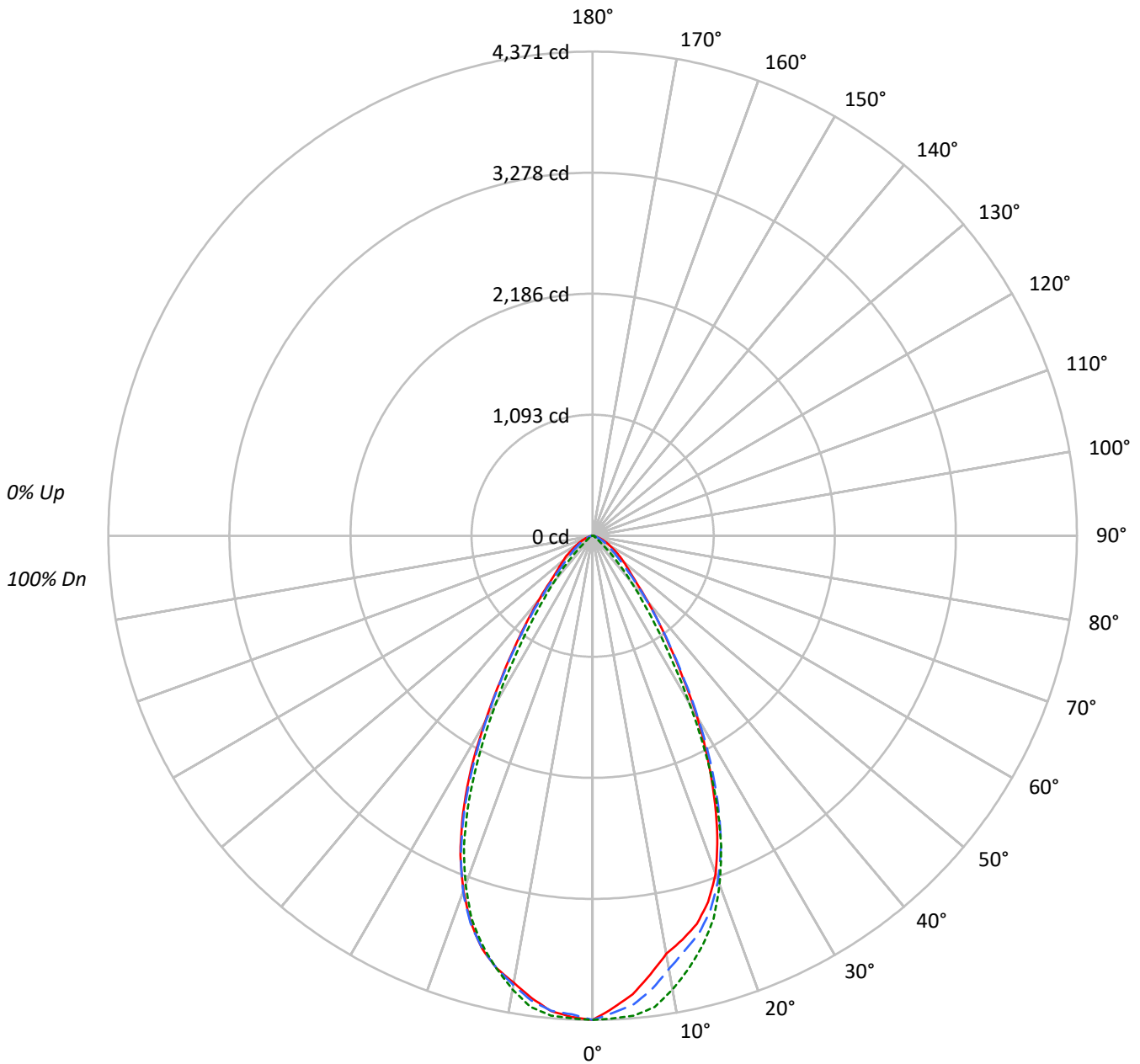
Lumens per Lamp: N/A
Luminaire Lumens: 3979.0 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859208

CATALOG NUMBER: LD4C60D010 EU4609035 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859208

CATALOG NUMBER: LD4C60D010 EU4609035 4LBMDDWLI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	536980	536980	536980
5°	512394	536109	531114
10°	477887	518730	511158
15°	461474	487229	490663
20°	424493	437737	445673
25°	351830	358242	375620
30°	267645	247544	275306
35°	181216	148312	183241
40°	123408	84982	119623
45°	85620	42810	80929
50°	69665	17412	65155
55°	56396	10838	51320
60°	44792	8305	40640
65°	35320	6860	31395
70°	26689	6070	24246
75°	19224	4794	17610
80°	14362	4811	11956
85°	9585	4793	9585



TEST NUMBER: P859208

CATALOG NUMBER: LD4C60D010 EU4609035 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	10.1
10°-20°	1055.9	26.5
20°-30°	1211.4	30.4
30°-40°	735.9	18.5
40°-50°	315.4	7.9
50°-60°	151.3	3.8
60°-70°	73.6	1.8
70°-80°	27.3	0.7
80°-90°	6.3	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°	2669.2	67.1
0°-40°	3405.1	85.6
0°-60°	3871.9	97.3
0°-90°	3979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4371	4371	4371	4371	4371	
5°	4155	4246	4347	4303	4307	386
15°	3628	3713	3831	3854	3858	1010
25°	2596	2680	2643	2744	2771	1177
35°	1208	1225	989	1195	1222	774
45°	493	439	246	395	466	400
55°	263	196	51	176	240	238
65°	122	81	24	74	108	123
75°	40	27	10	24	37	44
85°	7	7	3	3	7	9
90°	0	0	0	0	0	



TEST NUMBER: P859208

CATALOG NUMBER: LD4C60D010 EU4609035 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4370.9	4370.9	4370.9	4370.9	4370.9	4370.9	4370.9	4370.9	4370.9
2.5°	4266.2	4313.5	4310.1	4350.6	4360.7	4350.6	4323.6	4350.6	4347.2
5°	4154.9	4208.9	4246.0	4313.5	4347.2	4340.5	4303.4	4310.1	4306.7
7.5°	3992.9	4060.4	4124.5	4225.7	4289.9	4286.5	4232.5	4222.4	4208.9
10°	3830.8	3895.0	3969.2	4073.9	4158.2	4171.7	4117.7	4104.2	4097.5
12.5°	3736.3	3787.0	3837.6	3928.7	4003.0	4030.0	3999.6	4003.0	3999.6
15°	3628.3	3679.0	3712.7	3780.2	3830.8	3868.0	3854.5	3874.7	3857.8
17.5°	3466.3	3527.1	3540.6	3591.2	3628.3	3652.0	3665.5	3685.7	3658.7
20°	3246.9	3294.2	3311.1	3331.3	3348.2	3378.6	3419.1	3439.3	3408.9
22.5°	2939.8	3030.9	3027.5	3017.4	3034.3	3044.4	3108.6	3142.3	3118.7
25°	2595.5	2690.0	2679.9	2639.4	2642.8	2663.0	2744.0	2787.9	2771.0
27.5°	2234.4	2322.1	2298.5	2220.9	2200.6	2231.0	2335.6	2386.3	2376.1
30°	1886.7	1944.1	1907.0	1768.6	1745.0	1782.1	1917.1	1967.7	1940.7
32.5°	1512.1	1556.0	1539.1	1370.3	1329.8	1367.0	1525.6	1572.8	1542.5
35°	1208.3	1248.8	1225.2	1026.1	988.9	1029.4	1194.8	1248.8	1221.8
37.5°	968.7	999.1	968.7	756.0	722.3	762.8	921.4	992.3	958.6
40°	769.5	793.2	752.7	556.9	529.9	550.2	698.7	769.5	745.9
42.5°	607.5	624.4	580.5	408.4	378.0	405.0	526.5	590.7	577.2
45°	492.8	492.8	438.8	283.5	246.4	273.4	394.9	462.4	465.8
47.5°	421.9	411.8	344.3	189.0	141.8	178.9	313.9	384.8	394.9
50°	364.5	351.0	283.5	138.4	91.1	128.3	259.9	330.8	340.9
52.5°	313.9	303.8	236.3	108.0	64.1	97.9	219.4	286.9	297.0
55°	263.3	256.5	195.8	84.4	50.6	74.3	175.5	232.9	239.6
57.5°	216.0	205.9	158.6	70.9	40.5	60.8	145.1	192.4	199.1
60°	182.3	172.1	128.3	57.4	33.8	47.3	118.1	158.6	165.4
62.5°	151.9	141.8	104.6	47.3	27.0	40.5	94.5	128.3	135.0
65°	121.5	114.8	81.0	37.1	23.6	30.4	74.3	101.3	108.0
67.5°	97.9	91.1	64.1	30.4	20.3	23.6	57.4	81.0	87.8
70°	74.3	67.5	47.3	23.6	16.9	20.3	43.9	60.8	67.5
72.5°	54.0	50.6	37.1	20.3	13.5	16.9	30.4	43.9	50.6
75°	40.5	37.1	27.0	13.5	10.1	13.5	23.6	33.8	37.1
77.5°	27.0	27.0	20.3	10.1	10.1	10.1	16.9	23.6	23.6
80°	20.3	16.9	13.5	6.8	6.8	6.8	10.1	16.9	16.9
82.5°	13.5	10.1	10.1	6.8	6.8	6.8	6.8	10.1	10.1
85°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	6.8	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)