

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: P859187

Luminaire Tested: **LD4C60D010 EU4609030 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859187
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 EU4609030 4LBMDDWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

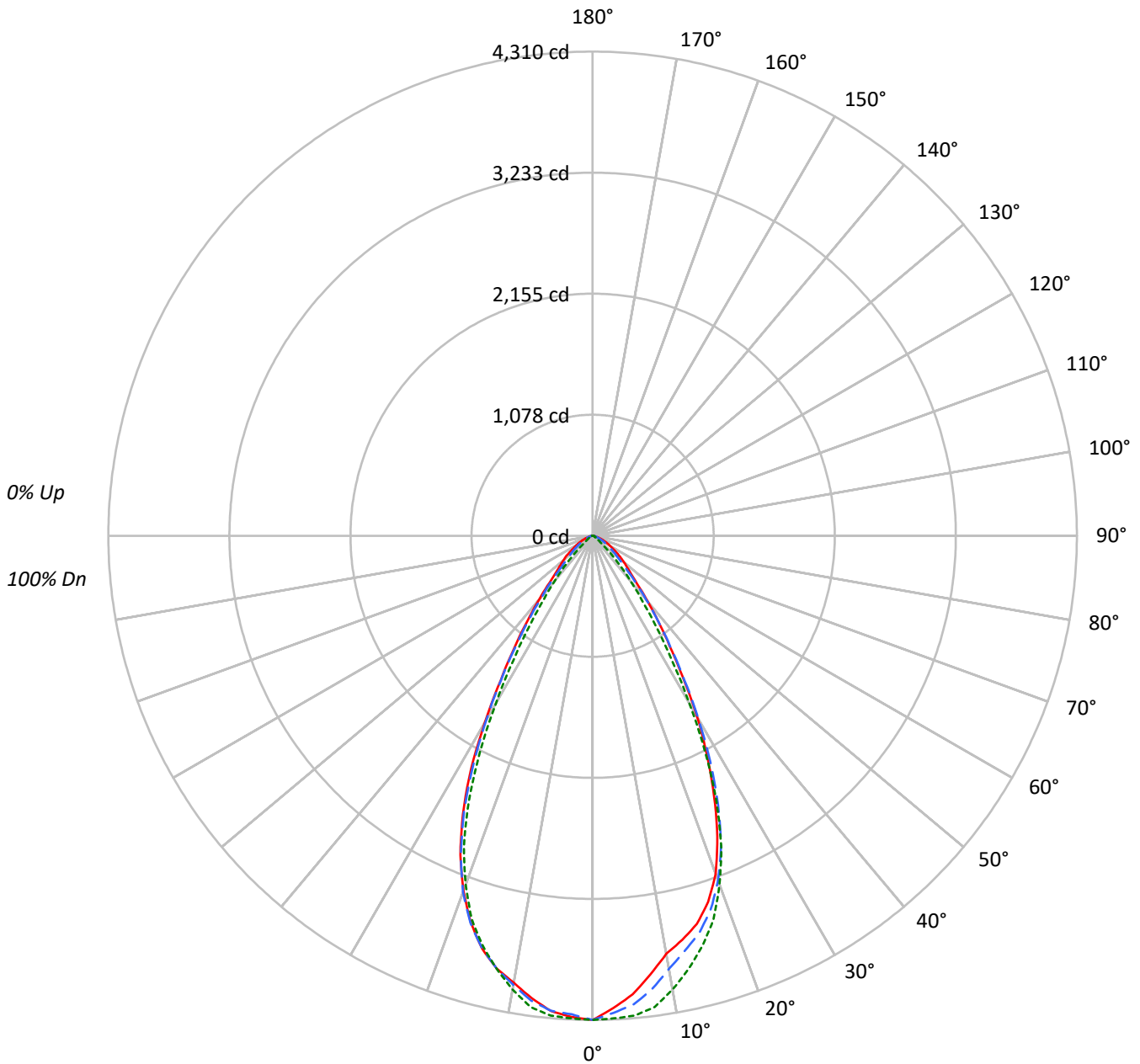
Lumens per Lamp: N/A
Luminaire Lumens: 3924.0 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859187

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859187

CATALOG NUMBER: LD4C60D010 EU4609030 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																			
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°	529560	529560	529560
5°	505303	528709	523776
10°	471288	511569	504084
15°	455102	480501	483884
20°	418636	431684	439515
25°	346964	353280	370428
30°	263957	244125	271504
35°	178712	146272	180707
40°	121708	83811	117971
45°	84438	42219	79799
50°	68710	17182	64257
55°	55603	10688	50613
60°	44154	8182	40075
65°	34825	6773	30959
70°	26293	5963	23923
75°	18939	4747	17373
80°	14150	4740	11744
85°	9444	4652	9444



TEST NUMBER: P859187

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.3	10.1
10°-20°	1041.3	26.5
20°-30°	1194.7	30.4
30°-40°	725.8	18.5
40°-50°	311.0	7.9
50°-60°	149.2	3.8
60°-70°	72.6	1.8
70°-80°	26.9	0.7
80°-90°	6.2	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°	2632.3	67.1
0°-40°	3358.1	85.6
0°-60°	3818.3	97.3
0°-90°	3924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4310	4310	4310	4310	4310	
5°	4097	4187	4287	4244	4247	381
15°	3578	3661	3778	3801	3804	996
25°	2560	2643	2606	2706	2733	1161
35°	1192	1208	975	1178	1205	764
45°	486	433	243	389	459	395
55°	260	193	50	173	236	234
65°	120	80	23	73	106	122
75°	40	27	10	23	37	44
85°	7	7	3	3	7	9
90°	0	0	0	0	0	



TEST NUMBER: P859187

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5	4310.5
2.5°	4207.3	4253.9	4250.5	4290.5	4300.5	4290.5	4263.9	4290.5	4287.2
5°	4097.4	4150.7	4187.3	4253.9	4287.2	4280.5	4243.9	4250.5	4247.2
7.5°	3937.7	4004.2	4067.5	4167.3	4230.6	4227.2	4174.0	4164.0	4150.7
10°	3777.9	3841.1	3914.4	4017.5	4100.8	4114.1	4060.8	4047.5	4040.8
12.5°	3684.7	3734.6	3784.5	3874.4	3947.6	3974.3	3944.3	3947.6	3944.3
15°	3578.2	3628.1	3661.4	3728.0	3777.9	3814.5	3801.2	3821.2	3804.5
17.5°	3418.4	3478.3	3491.6	3541.6	3578.2	3601.5	3614.8	3634.8	3608.1
20°	3202.1	3248.7	3265.3	3285.3	3301.9	3331.9	3371.8	3391.8	3361.8
22.5°	2899.2	2989.0	2985.7	2975.7	2992.4	3002.3	3065.6	3098.9	3075.6
25°	2559.6	2652.8	2642.9	2602.9	2606.2	2626.2	2706.1	2749.4	2732.7
27.5°	2203.5	2290.0	2266.7	2190.2	2170.2	2200.2	2303.3	2353.3	2343.3
30°	1860.7	1917.2	1880.6	1744.2	1720.9	1757.5	1890.6	1940.5	1913.9
32.5°	1491.2	1534.5	1517.8	1351.4	1311.4	1348.1	1504.5	1551.1	1521.1
35°	1191.6	1231.6	1208.3	1011.9	975.3	1015.2	1178.3	1231.6	1204.9
37.5°	955.3	985.2	955.3	745.6	712.3	752.2	908.7	978.6	945.3
40°	758.9	782.2	742.3	549.2	522.6	542.6	689.0	758.9	735.6
42.5°	599.1	615.8	572.5	402.8	372.8	399.4	519.3	582.5	569.2
45°	486.0	486.0	432.7	279.6	243.0	269.6	389.4	456.0	459.3
47.5°	416.1	406.1	339.5	186.4	139.8	176.4	309.6	379.5	389.4
50°	359.5	346.2	279.6	136.5	89.9	126.5	256.3	326.2	336.2
52.5°	309.6	299.6	233.0	106.5	63.2	96.5	216.4	282.9	292.9
55°	259.6	253.0	193.1	83.2	49.9	73.2	173.1	229.7	236.3
57.5°	213.0	203.0	156.4	69.9	39.9	59.9	143.1	189.7	196.4
60°	179.7	169.8	126.5	56.6	33.3	46.6	116.5	156.4	163.1
62.5°	149.8	139.8	103.2	46.6	26.6	39.9	93.2	126.5	133.1
65°	119.8	113.2	79.9	36.6	23.3	30.0	73.2	99.9	106.5
67.5°	96.5	89.9	63.2	30.0	20.0	23.3	56.6	79.9	86.5
70°	73.2	66.6	46.6	23.3	16.6	20.0	43.3	59.9	66.6
72.5°	53.3	49.9	36.6	20.0	13.3	16.6	30.0	43.3	49.9
75°	39.9	36.6	26.6	13.3	10.0	13.3	23.3	33.3	36.6
77.5°	26.6	26.6	20.0	10.0	10.0	10.0	16.6	23.3	23.3
80°	20.0	16.6	13.3	6.7	6.7	6.7	10.0	16.6	16.6
82.5°	13.3	10.0	10.0	6.7	6.7	6.7	6.7	10.0	10.0
85°	6.7	6.7	6.7	3.3	3.3	3.3	3.3	6.7	6.7
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)