

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: P859339

Luminaire Tested: **LD4C65D010 EU4659030 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859339
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: LD4C65D010 EU4659030 4LBMDSWGPH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

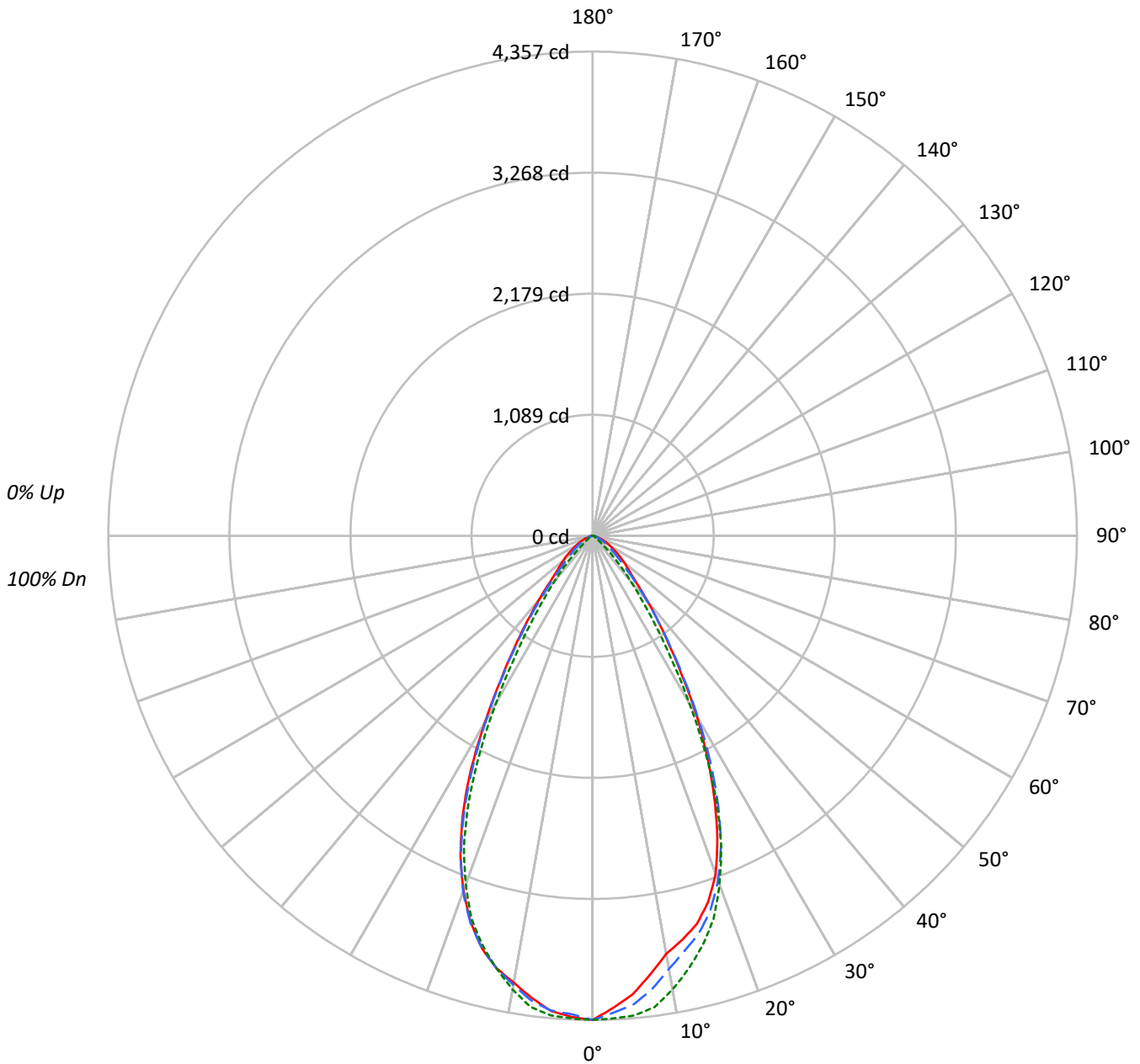
Lumens per Lamp: N/A
Luminaire Lumens: 3966.0 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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: P859339

CATALOG NUMBER: LD4C65D010 EU4659030 4LBMDSWGPB

Luminous Intensity Polar Plot





TEST NUMBER: P859339

CATALOG NUMBER: LD4C65D010 EU4659030 4LBMDSWGPH

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°	535223	535223	535223
5°	510717	534358	529388
10°	476328	517046	509486
15°	459973	485639	489061
20°	423107	436312	444221
25°	350678	357062	374400
30°	266780	246735	274412
35°	180632	147832	182641
40°	123007	84709	119238
45°	85342	42671	80668
50°	69436	17354	64945
55°	56203	10817	51170
60°	44645	8256	40493
65°	35203	6831	31308
70°	26581	6035	24174
75°	19177	4794	17563
80°	14291	4740	11886
85°	9444	4793	9444



TEST NUMBER: P859339

CATALOG NUMBER: LD4C65D010 EU4659030 4LBMDSWGPB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	10.1
10°-20°	1052.4	26.5
20°-30°	1207.5	30.4
30°-40°	733.5	18.5
40°-50°	314.4	7.9
50°-60°	150.8	3.8
60°-70°	73.3	1.8
70°-80°	27.2	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°	2660.5	67.1
0°-40°	3394.0	85.6
0°-60°	3859.2	97.3
0°-90°	3966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4357	4357	4357	4357	4357	
5°	4141	4232	4333	4289	4293	385
15°	3616	3701	3818	3842	3845	1007
25°	2587	2671	2634	2735	2762	1174
35°	1204	1221	986	1191	1218	772
45°	491	437	246	394	464	399
55°	262	195	50	175	239	237
65°	121	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: P859339

CATALOG NUMBER: LD4C65D010 EU4659030 4LBMDSWGPB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6	4356.6
2.5°	4252.3	4299.4	4296.0	4336.4	4346.5	4336.4	4309.5	4336.4	4333.0
5°	4141.3	4195.1	4232.1	4299.4	4333.0	4326.3	4289.3	4296.0	4292.7
7.5°	3979.8	4047.1	4111.0	4211.9	4275.9	4272.5	4218.7	4208.6	4195.1
10°	3818.3	3882.2	3956.3	4060.5	4144.7	4158.1	4104.3	4090.8	4084.1
12.5°	3724.1	3774.6	3825.1	3915.9	3989.9	4016.8	3986.5	3989.9	3986.5
15°	3616.5	3666.9	3700.6	3767.9	3818.3	3855.3	3841.9	3862.1	3845.2
17.5°	3455.0	3515.6	3529.0	3579.5	3616.5	3640.0	3653.5	3673.7	3646.8
20°	3236.3	3283.4	3300.2	3320.4	3337.3	3367.5	3407.9	3428.1	3397.8
22.5°	2930.2	3021.0	3017.7	3007.6	3024.4	3034.5	3098.4	3132.0	3108.5
25°	2587.0	2681.2	2671.1	2630.8	2634.1	2654.3	2735.1	2778.8	2762.0
27.5°	2227.1	2314.5	2291.0	2213.6	2193.4	2223.7	2328.0	2378.5	2368.4
30°	1880.6	1937.8	1900.8	1762.8	1739.3	1776.3	1910.8	1961.3	1934.4
32.5°	1507.1	1550.9	1534.1	1365.9	1325.5	1362.5	1520.6	1567.7	1537.4
35°	1204.4	1244.7	1221.2	1022.7	985.7	1026.1	1190.9	1244.7	1217.8
37.5°	965.5	995.8	965.5	753.6	719.9	760.3	918.4	989.1	955.4
40°	767.0	790.6	750.2	555.1	528.2	548.4	696.4	767.0	743.5
42.5°	605.5	622.4	578.6	407.1	376.8	403.7	524.8	588.7	575.3
45°	491.2	491.2	437.3	282.6	245.6	272.5	393.6	460.9	464.3
47.5°	420.5	410.4	343.1	188.4	141.3	178.3	312.9	383.5	393.6
50°	363.3	349.9	282.6	137.9	90.8	127.8	259.0	329.7	339.8
52.5°	312.9	302.8	235.5	107.7	63.9	97.6	218.7	286.0	296.0
55°	262.4	255.7	195.1	84.1	50.5	74.0	174.9	232.1	238.9
57.5°	215.3	205.2	158.1	70.6	40.4	60.6	144.7	191.8	198.5
60°	181.7	171.6	127.8	57.2	33.6	47.1	117.7	158.1	164.8
62.5°	151.4	141.3	104.3	47.1	26.9	40.4	94.2	127.8	134.6
65°	121.1	114.4	80.7	37.0	23.5	30.3	74.0	100.9	107.7
67.5°	97.6	90.8	63.9	30.3	20.2	23.5	57.2	80.7	87.5
70°	74.0	67.3	47.1	23.5	16.8	20.2	43.7	60.6	67.3
72.5°	53.8	50.5	37.0	20.2	13.5	16.8	30.3	43.7	50.5
75°	40.4	37.0	26.9	13.5	10.1	13.5	23.5	33.6	37.0
77.5°	26.9	26.9	20.2	10.1	10.1	10.1	16.8	23.5	23.5
80°	20.2	16.8	13.5	6.7	6.7	6.7	10.1	16.8	16.8
82.5°	13.5	10.1	10.1	6.7	6.7	6.7	6.7	10.1	10.1
85°	6.7	6.7	6.7	3.4	3.4	3.4	3.4	6.7	6.7
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)