

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: P859402

Luminaire Tested: **LD4C65D010 EU4659050 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859402
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 EU4659050 4LBMDSWGPH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

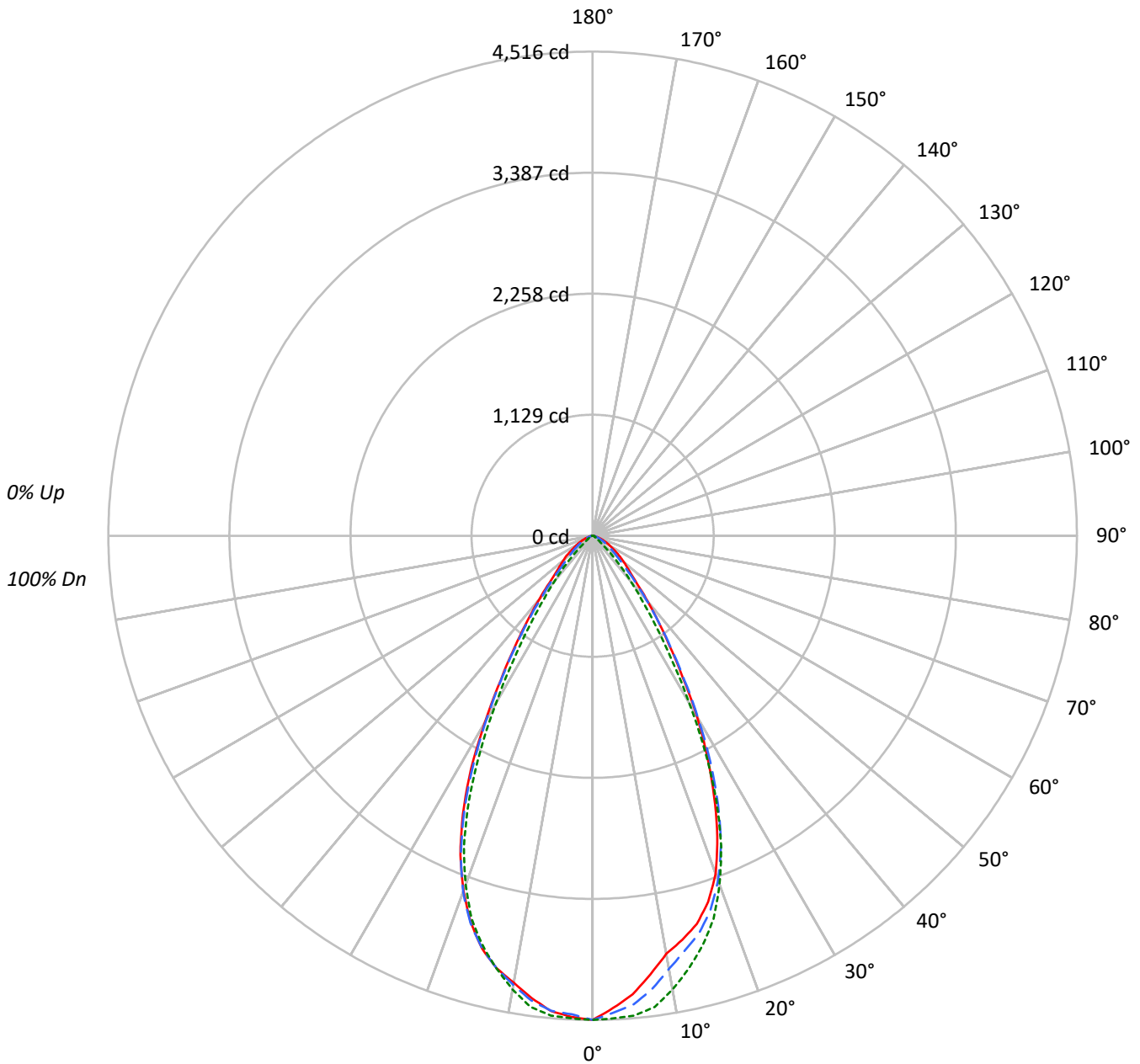
Lumens per Lamp: N/A
Luminaire Lumens: 4111.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P859402

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDSWGPB

Luminous Intensity Polar Plot





TEST NUMBER: P859402

CATALOG NUMBER: LD4C65D010 EU4659050 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°	554794	554794	554794
5°	529388	553904	548737
10°	493743	535945	528111
15°	476787	503395	506943
20°	438573	452262	460459
25°	363501	370116	388091
30°	276526	255758	284441
35°	187231	153231	189330
40°	127513	87805	123600
45°	88452	44234	83604
50°	71978	18004	67315
55°	58259	11202	53033
60°	46267	8575	41991
65°	36482	7093	32442
70°	27551	6250	25036
75°	19841	4984	18227
80°	14786	4952	12310
85°	9867	4934	9867



TEST NUMBER: P859402

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDSWGPB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.2	10.1
10°-20°	1090.9	26.5
20°-30°	1251.6	30.4
30°-40°	760.3	18.5
40°-50°	325.9	7.9
50°-60°	156.3	3.8
60°-70°	76.0	1.8
70°-80°	28.2	0.7
80°-90°	6.5	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°	2757.7	67.1
0°-40°	3518.1	85.6
0°-60°	4000.3	97.3
0°-90°	4111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4111.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4516	4516	4516	4516	4516	
5°	4293	4387	4492	4446	4450	399
15°	3749	3836	3958	3982	3986	1044
25°	2682	2769	2730	2835	2863	1216
35°	1248	1266	1022	1234	1262	800
45°	509	453	255	408	481	414
55°	272	202	52	181	248	245
65°	126	84	24	77	112	127
75°	42	28	10	24	38	46
85°	7	7	4	4	7	9
90°	0	0	0	0	0	



TEST NUMBER: P859402

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMSWGPB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4515.9	4515.9	4515.9	4515.9	4515.9	4515.9	4515.9	4515.9	4515.9
2.5°	4407.8	4456.6	4453.1	4495.0	4505.4	4495.0	4467.1	4495.0	4491.5
5°	4292.7	4348.5	4386.8	4456.6	4491.5	4484.5	4446.1	4453.1	4449.6
7.5°	4125.3	4195.1	4261.3	4365.9	4432.2	4428.7	4372.9	4362.4	4348.5
10°	3957.9	4024.2	4100.9	4209.0	4296.2	4310.1	4254.3	4240.4	4233.4
12.5°	3860.3	3912.6	3964.9	4059.1	4135.8	4163.7	4132.3	4135.8	4132.3
15°	3748.7	3801.0	3835.9	3905.6	3957.9	3996.3	3982.3	4003.3	3985.8
17.5°	3581.3	3644.1	3658.0	3710.3	3748.7	3773.1	3787.1	3808.0	3780.1
20°	3354.6	3403.5	3420.9	3441.8	3459.3	3490.6	3532.5	3553.4	3522.0
22.5°	3037.3	3131.5	3128.0	3117.5	3135.0	3145.4	3211.7	3246.5	3222.1
25°	2681.6	2779.3	2768.8	2727.0	2730.4	2751.4	2835.1	2880.4	2863.0
27.5°	2308.5	2399.2	2374.8	2294.6	2273.6	2305.0	2413.1	2465.4	2455.0
30°	1949.3	2008.6	1970.2	1827.3	1802.9	1841.2	1980.7	2033.0	2005.1
32.5°	1562.2	1607.6	1590.1	1415.8	1373.9	1412.3	1576.2	1625.0	1593.6
35°	1248.4	1290.2	1265.8	1060.1	1021.7	1063.6	1234.5	1290.2	1262.4
37.5°	1000.8	1032.2	1000.8	781.1	746.3	788.1	952.0	1025.2	990.4
40°	795.1	819.5	777.6	575.4	547.5	568.4	721.8	795.1	770.7
42.5°	627.7	645.1	599.8	421.9	390.6	418.5	544.0	610.3	596.3
45°	509.1	509.1	453.3	292.9	254.6	282.5	408.0	477.7	481.2
47.5°	435.9	425.4	355.7	195.3	146.5	184.8	324.3	397.5	408.0
50°	376.6	362.7	292.9	143.0	94.2	132.5	268.5	341.7	352.2
52.5°	324.3	313.8	244.1	111.6	66.3	101.1	226.7	296.4	306.9
55°	272.0	265.0	202.3	87.2	52.3	76.7	181.3	240.6	247.6
57.5°	223.2	212.7	163.9	73.2	41.8	62.8	149.9	198.8	205.7
60°	188.3	177.8	132.5	59.3	34.9	48.8	122.1	163.9	170.9
62.5°	156.9	146.5	108.1	48.8	27.9	41.8	97.6	132.5	139.5
65°	125.5	118.6	83.7	38.4	24.4	31.4	76.7	104.6	111.6
67.5°	101.1	94.2	66.3	31.4	20.9	24.4	59.3	83.7	90.7
70°	76.7	69.7	48.8	24.4	17.4	20.9	45.3	62.8	69.7
72.5°	55.8	52.3	38.4	20.9	13.9	17.4	31.4	45.3	52.3
75°	41.8	38.4	27.9	13.9	10.5	13.9	24.4	34.9	38.4
77.5°	27.9	27.9	20.9	10.5	10.5	10.5	17.4	24.4	24.4
80°	20.9	17.4	13.9	7.0	7.0	7.0	10.5	17.4	17.4
82.5°	13.9	10.5	10.5	7.0	7.0	7.0	7.0	10.5	10.5
85°	7.0	7.0	7.0	3.5	3.5	3.5	3.5	7.0	7.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)