

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: P859360

Luminaire Tested: **LD4C65D010 EU4659035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859360
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 EU4659035 4LBMDSWGPH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

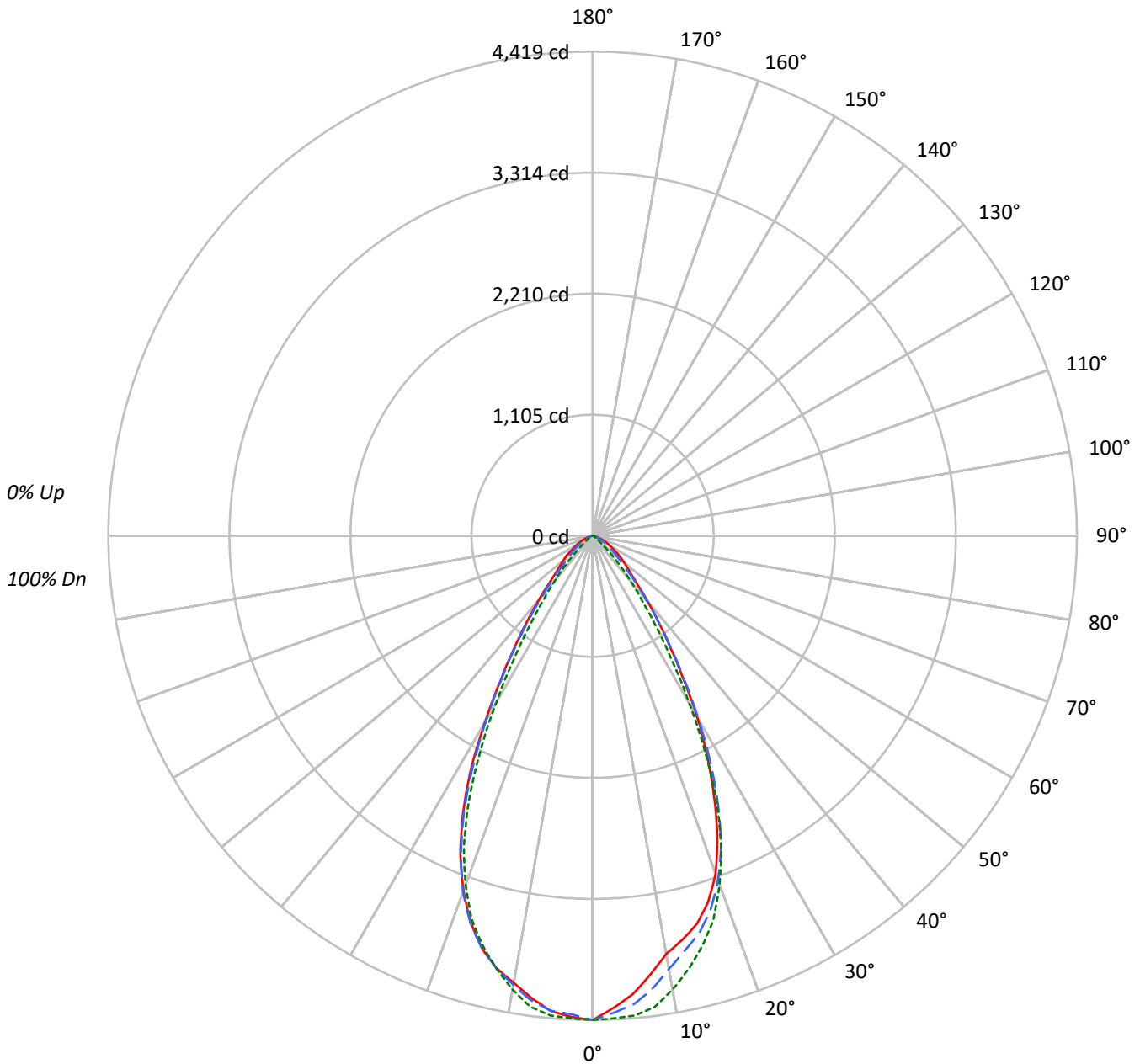
Lumens per Lamp: N/A
Luminaire Lumens: 4023.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859360

CATALOG NUMBER: LD4C65D010 EU4659035 4LBMDSWGPH

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				
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°	542914	542914	542914
5°	518054	542041	536997
10°	483177	524468	516809
15°	466587	492622	496094
20°	429187	442574	450601
25°	355720	362200	379781
30°	270610	250282	278356
35°	183226	149961	185266
40°	124787	85928	120954
45°	86558	43279	81815
50°	70449	17603	65881
55°	57017	10966	51898
60°	45284	8379	41082
65°	35727	6948	31744
70°	26976	6142	24533
75°	19461	4842	17800
80°	14503	4811	12098
85°	9585	4793	9585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.3	10.1
10°-20°	1067.6	26.5
20°-30°	1224.8	30.4
30°-40°	744.1	18.5
40°-50°	318.9	7.9
50°-60°	153.0	3.8
60°-70°	74.4	1.8
70°-80°	27.6	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°	2698.7	67.1
0°-40°	3442.8	85.6
0°-60°	3914.7	97.3
0°-90°	4023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4023.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4419	4419	4419	4419	4419	
5°	4201	4293	4395	4351	4354	390
15°	3668	3754	3873	3897	3900	1021
25°	2624	2710	2672	2774	2802	1190
35°	1222	1239	1000	1208	1235	783
45°	498	444	249	399	471	405
55°	266	198	51	178	242	240
65°	123	82	24	75	109	125
75°	41	27	10	24	38	45
85°	7	7	3	3	7	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°	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2	4419.2
2.5°	4313.4	4361.2	4357.8	4398.7	4409.0	4398.7	4371.4	4398.7	4395.3
5°	4200.8	4255.4	4292.9	4361.2	4395.3	4388.5	4351.0	4357.8	4354.4
7.5°	4037.0	4105.3	4170.1	4272.5	4337.3	4333.9	4279.3	4269.1	4255.4
10°	3873.2	3938.0	4013.1	4118.9	4204.2	4217.9	4163.3	4149.6	4142.8
12.5°	3777.7	3828.8	3880.0	3972.2	4047.2	4074.5	4043.8	4047.2	4043.8
15°	3668.5	3719.6	3753.8	3822.0	3873.2	3910.7	3897.1	3917.6	3900.5
17.5°	3504.7	3566.1	3579.7	3630.9	3668.5	3692.3	3706.0	3726.5	3699.2
20°	3282.8	3330.6	3347.7	3368.2	3385.2	3415.9	3456.9	3477.4	3446.6
22.5°	2972.3	3064.4	3061.0	3050.8	3067.9	3078.1	3142.9	3177.1	3153.2
25°	2624.2	2719.8	2709.5	2668.6	2672.0	2692.5	2774.4	2818.7	2801.7
27.5°	2259.1	2347.8	2323.9	2245.4	2225.0	2255.7	2361.5	2412.6	2402.4
30°	1907.6	1965.6	1928.1	1788.2	1764.3	1801.8	1938.3	1989.5	1962.2
32.5°	1528.8	1573.2	1556.1	1385.5	1344.5	1382.1	1542.5	1590.2	1559.5
35°	1221.7	1262.6	1238.7	1037.4	999.9	1040.8	1208.0	1262.6	1235.3
37.5°	979.4	1010.1	979.4	764.4	730.3	771.2	931.6	1003.3	969.2
40°	778.1	801.9	761.0	563.1	535.8	556.2	706.4	778.1	754.2
42.5°	614.3	631.3	587.0	412.9	382.2	409.5	532.4	597.2	583.5
45°	498.2	498.2	443.6	286.7	249.1	276.4	399.3	467.5	470.9
47.5°	426.6	416.3	348.1	191.1	143.3	180.9	317.4	389.0	399.3
50°	368.6	354.9	286.7	139.9	92.1	129.7	262.8	334.4	344.7
52.5°	317.4	307.1	238.9	109.2	64.8	99.0	221.8	290.1	300.3
55°	266.2	259.4	197.9	85.3	51.2	75.1	177.5	235.5	242.3
57.5°	218.4	208.2	160.4	71.7	41.0	61.4	146.7	194.5	201.3
60°	184.3	174.0	129.7	58.0	34.1	47.8	119.4	160.4	167.2
62.5°	153.6	143.3	105.8	47.8	27.3	41.0	95.6	129.7	136.5
65°	122.9	116.0	81.9	37.5	23.9	30.7	75.1	102.4	109.2
67.5°	99.0	92.1	64.8	30.7	20.5	23.9	58.0	81.9	88.7
70°	75.1	68.3	47.8	23.9	17.1	20.5	44.4	61.4	68.3
72.5°	54.6	51.2	37.5	20.5	13.7	17.1	30.7	44.4	51.2
75°	41.0	37.5	27.3	13.7	10.2	13.7	23.9	34.1	37.5
77.5°	27.3	27.3	20.5	10.2	10.2	10.2	17.1	23.9	23.9
80°	20.5	17.1	13.7	6.8	6.8	6.8	10.2	17.1	17.1
82.5°	13.7	10.2	10.2	6.8	6.8	6.8	6.8	10.2	10.2
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)