

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: P859380

Luminaire Tested: **LD4C65D010 EU4659040 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859380
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 EU4659040 4LBMDDWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

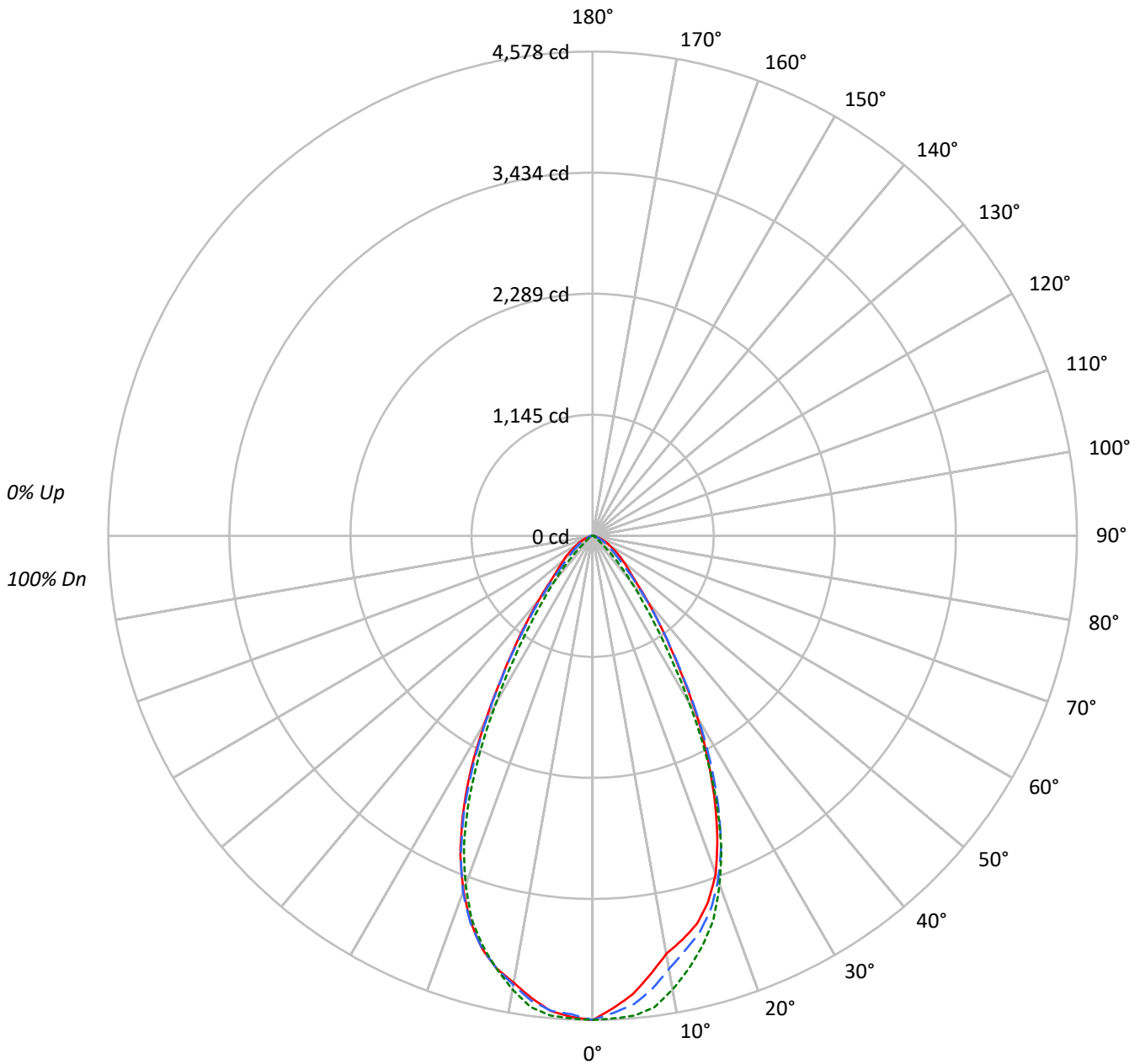
Lumens per Lamp: N/A
Luminaire Lumens: 4168.0 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859380

CATALOG NUMBER: LD4C65D010 EU4659040 4LBMDDWLI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	562485	562485	562485
5°	536725	561575	556346
10°	500592	543380	535434
15°	483401	510377	513977
20°	444666	458524	466852
25°	368544	375254	393472
30°	280370	259304	288385
35°	189825	155361	191955
40°	129277	89024	125300
45°	89685	44843	84768
50°	72972	18253	68251
55°	59073	11352	53761
60°	46905	8698	42556
65°	37006	7180	32878
70°	27946	6358	25395
75°	20126	5031	18465
80°	14999	5023	12522
85°	10008	4934	10008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	10.1
10°-20°	1106.0	26.5
20°-30°	1269.0	30.4
30°-40°	770.9	18.5
40°-50°	330.4	7.9
50°-60°	158.5	3.8
60°-70°	77.1	1.8
70°-80°	28.6	0.7
80°-90°	6.6	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°	2796.0	67.1
0°-40°	3566.9	85.6
0°-60°	4055.8	97.3
0°-90°	4168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4578	4578	4578	4578	4578	
5°	4352	4448	4554	4508	4511	404
15°	3801	3889	4013	4038	4041	1058
25°	2719	2807	2768	2874	2903	1233
35°	1266	1283	1036	1252	1280	811
45°	516	460	258	414	488	419
55°	276	205	53	184	251	249
65°	127	85	25	78	113	129
75°	42	28	11	25	39	47
85°	7	7	4	4	7	10
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°	4578.5	4578.5	4578.5	4578.5	4578.5	4578.5	4578.5	4578.5	4578.5
2.5°	4468.9	4518.4	4514.8	4557.3	4567.9	4557.3	4529.0	4557.3	4553.7
5°	4352.2	4408.8	4447.7	4518.4	4553.7	4546.7	4507.8	4514.8	4511.3
7.5°	4182.5	4253.2	4320.4	4426.5	4493.6	4490.1	4433.5	4422.9	4408.8
10°	4012.8	4080.0	4157.8	4267.4	4355.8	4369.9	4313.3	4299.2	4292.1
12.5°	3913.8	3966.8	4019.9	4115.3	4193.1	4221.4	4189.6	4193.1	4189.6
15°	3800.7	3853.7	3889.1	3959.8	4012.8	4051.7	4037.6	4058.8	4041.1
17.5°	3631.0	3694.6	3708.8	3761.8	3800.7	3825.4	3839.6	3860.8	3832.5
20°	3401.2	3450.7	3468.3	3489.5	3507.2	3539.0	3581.5	3602.7	3570.9
22.5°	3079.4	3174.9	3171.4	3160.7	3178.4	3189.0	3256.2	3291.6	3266.8
25°	2718.8	2817.8	2807.2	2764.8	2768.3	2789.5	2874.4	2920.3	2902.7
27.5°	2340.5	2432.4	2407.7	2326.4	2305.2	2337.0	2446.6	2499.6	2489.0
30°	1976.4	2036.5	1997.6	1852.6	1827.9	1866.8	2008.2	2061.2	2032.9
32.5°	1583.9	1629.9	1612.2	1435.4	1393.0	1431.9	1598.1	1647.5	1615.7
35°	1265.7	1308.1	1283.4	1074.8	1035.9	1078.3	1251.6	1308.1	1279.9
37.5°	1014.7	1046.5	1014.7	792.0	756.6	799.0	965.2	1039.4	1004.1
40°	806.1	830.8	788.4	583.4	555.1	576.3	731.9	806.1	781.3
42.5°	636.4	654.1	608.1	427.8	396.0	424.3	551.5	618.7	604.6
45°	516.2	516.2	459.6	297.0	258.1	286.4	413.7	484.4	487.9
47.5°	441.9	431.3	360.6	198.0	148.5	187.4	328.8	403.0	413.7
50°	381.8	367.7	297.0	145.0	95.5	134.3	272.2	346.5	357.1
52.5°	328.8	318.2	247.5	113.1	67.2	102.5	229.8	300.5	311.1
55°	275.8	268.7	205.1	88.4	53.0	77.8	183.8	244.0	251.0
57.5°	226.3	215.7	166.2	74.2	42.4	63.6	152.0	201.5	208.6
60°	190.9	180.3	134.3	60.1	35.4	49.5	123.7	166.2	173.2
62.5°	159.1	148.5	109.6	49.5	28.3	42.4	99.0	134.3	141.4
65°	127.3	120.2	84.9	38.9	24.7	31.8	77.8	106.1	113.1
67.5°	102.5	95.5	67.2	31.8	21.2	24.7	60.1	84.9	91.9
70°	77.8	70.7	49.5	24.7	17.7	21.2	46.0	63.6	70.7
72.5°	56.6	53.0	38.9	21.2	14.1	17.7	31.8	46.0	53.0
75°	42.4	38.9	28.3	14.1	10.6	14.1	24.7	35.4	38.9
77.5°	28.3	28.3	21.2	10.6	10.6	10.6	17.7	24.7	24.7
80°	21.2	17.7	14.1	7.1	7.1	7.1	10.6	17.7	17.7
82.5°	14.1	10.6	10.6	7.1	7.1	7.1	7.1	10.6	10.6
85°	7.1	7.1	7.1	3.5	3.5	3.5	3.5	7.1	7.1
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)