

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: P859359

Luminaire Tested: **LD4C65D010 EU4659035 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859359
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 4LBMDDWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

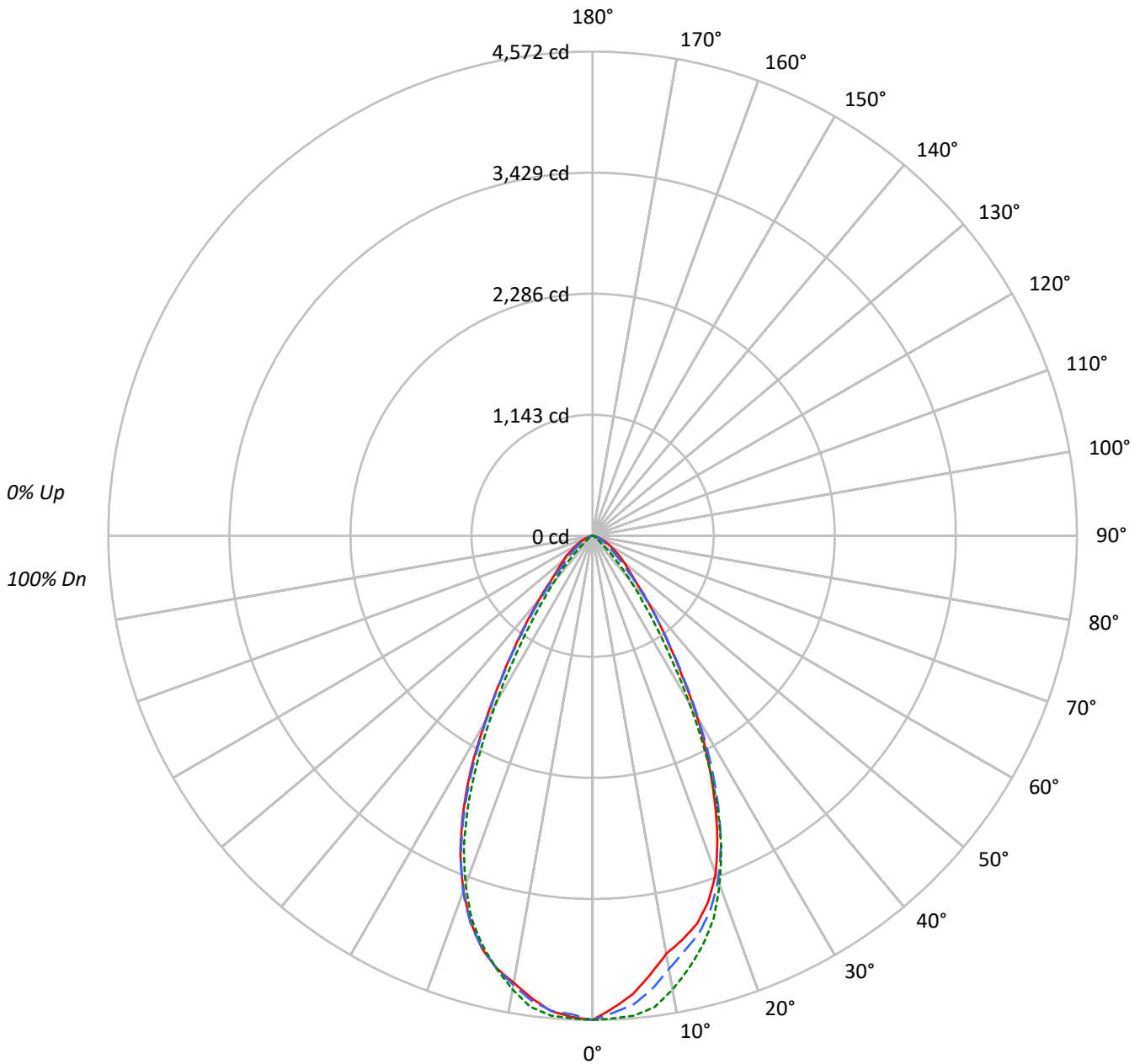
Lumens per Lamp: N/A
Luminaire Lumens: 4162.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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

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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°	561674	561674	561674
5°	535948	560773	555544
10°	499868	542594	534660
15°	482701	509639	513239
20°	444025	457870	466172
25°	368015	374711	392903
30°	279959	258921	287974
35°	189555	155136	191670
40°	129085	88895	125124
45°	89546	44773	84647
50°	72876	18214	68156
55°	58988	11352	53697
60°	46832	8673	42507
65°	36947	7180	32849
70°	27910	6358	25359
75°	20126	5031	18417
80°	14999	5023	12522
85°	10008	4934	10008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	10.1
10°-20°	1104.4	26.5
20°-30°	1267.2	30.4
30°-40°	769.8	18.5
40°-50°	329.9	7.9
50°-60°	158.3	3.8
60°-70°	77.0	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°	2792.0	67.1
0°-40°	3561.7	85.6
0°-60°	4049.9	97.3
0°-90°	4162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4162.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4572	4572	4572	4572	4572	
5°	4346	4441	4547	4501	4505	404
15°	3795	3884	4007	4032	4035	1057
25°	2715	2803	2764	2870	2898	1232
35°	1264	1282	1034	1250	1278	810
45°	515	459	258	413	487	419
55°	275	205	53	184	251	249
65°	127	85	25	78	113	129
75°	42	28	11	25	39	46
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°	4571.9	4571.9	4571.9	4571.9	4571.9	4571.9	4571.9	4571.9	4571.9
2.5°	4462.5	4511.9	4508.3	4550.7	4561.3	4550.7	4522.5	4550.7	4547.2
5°	4345.9	4402.4	4441.3	4511.9	4547.2	4540.1	4501.3	4508.3	4504.8
7.5°	4176.5	4247.1	4314.2	4420.1	4487.2	4483.6	4427.1	4416.6	4402.4
10°	4007.0	4074.1	4151.8	4261.2	4349.5	4363.6	4307.1	4293.0	4285.9
12.5°	3908.2	3961.1	4014.1	4109.4	4187.1	4215.3	4183.6	4187.1	4183.6
15°	3795.2	3848.2	3883.5	3954.1	4007.0	4045.9	4031.7	4052.9	4035.3
17.5°	3625.7	3689.3	3703.4	3756.4	3795.2	3819.9	3834.0	3855.2	3827.0
20°	3396.3	3445.7	3463.3	3484.5	3502.2	3534.0	3576.3	3597.5	3565.7
22.5°	3075.0	3170.3	3166.8	3156.2	3173.8	3184.4	3251.5	3286.8	3262.1
25°	2714.9	2813.7	2803.2	2760.8	2764.3	2785.5	2870.2	2916.1	2898.5
27.5°	2337.1	2428.9	2404.2	2323.0	2301.8	2333.6	2443.1	2496.0	2485.4
30°	1973.5	2033.5	1994.7	1849.9	1825.2	1864.1	2005.3	2058.2	2030.0
32.5°	1581.6	1627.5	1609.9	1433.4	1391.0	1429.8	1595.8	1645.2	1613.4
35°	1263.9	1306.3	1281.5	1073.2	1034.4	1076.8	1249.8	1306.3	1278.0
37.5°	1013.2	1045.0	1013.2	790.8	755.5	797.9	963.8	1037.9	1002.6
40°	804.9	829.6	787.3	582.5	554.3	575.5	730.8	804.9	780.2
42.5°	635.5	653.1	607.2	427.2	395.4	423.7	550.7	617.8	603.7
45°	515.4	515.4	459.0	296.6	257.7	286.0	413.1	483.7	487.2
47.5°	441.3	430.7	360.1	197.7	148.3	187.1	328.3	402.5	413.1
50°	381.3	367.2	296.6	144.7	95.3	134.2	271.8	346.0	356.6
52.5°	328.3	317.7	247.1	113.0	67.1	102.4	229.5	300.1	310.7
55°	275.4	268.3	204.8	88.3	53.0	77.7	183.6	243.6	250.7
57.5°	225.9	215.4	165.9	74.1	42.4	63.5	151.8	201.2	208.3
60°	190.6	180.1	134.2	60.0	35.3	49.4	123.6	165.9	173.0
62.5°	158.9	148.3	109.4	49.4	28.2	42.4	98.9	134.2	141.2
65°	127.1	120.0	84.7	38.8	24.7	31.8	77.7	105.9	113.0
67.5°	102.4	95.3	67.1	31.8	21.2	24.7	60.0	84.7	91.8
70°	77.7	70.6	49.4	24.7	17.7	21.2	45.9	63.5	70.6
72.5°	56.5	53.0	38.8	21.2	14.1	17.7	31.8	45.9	53.0
75°	42.4	38.8	28.2	14.1	10.6	14.1	24.7	35.3	38.8
77.5°	28.2	28.2	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)