

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: P859361

Luminaire Tested: **LD4C65D010 EU4659035 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859361
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 4LBMDSWH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

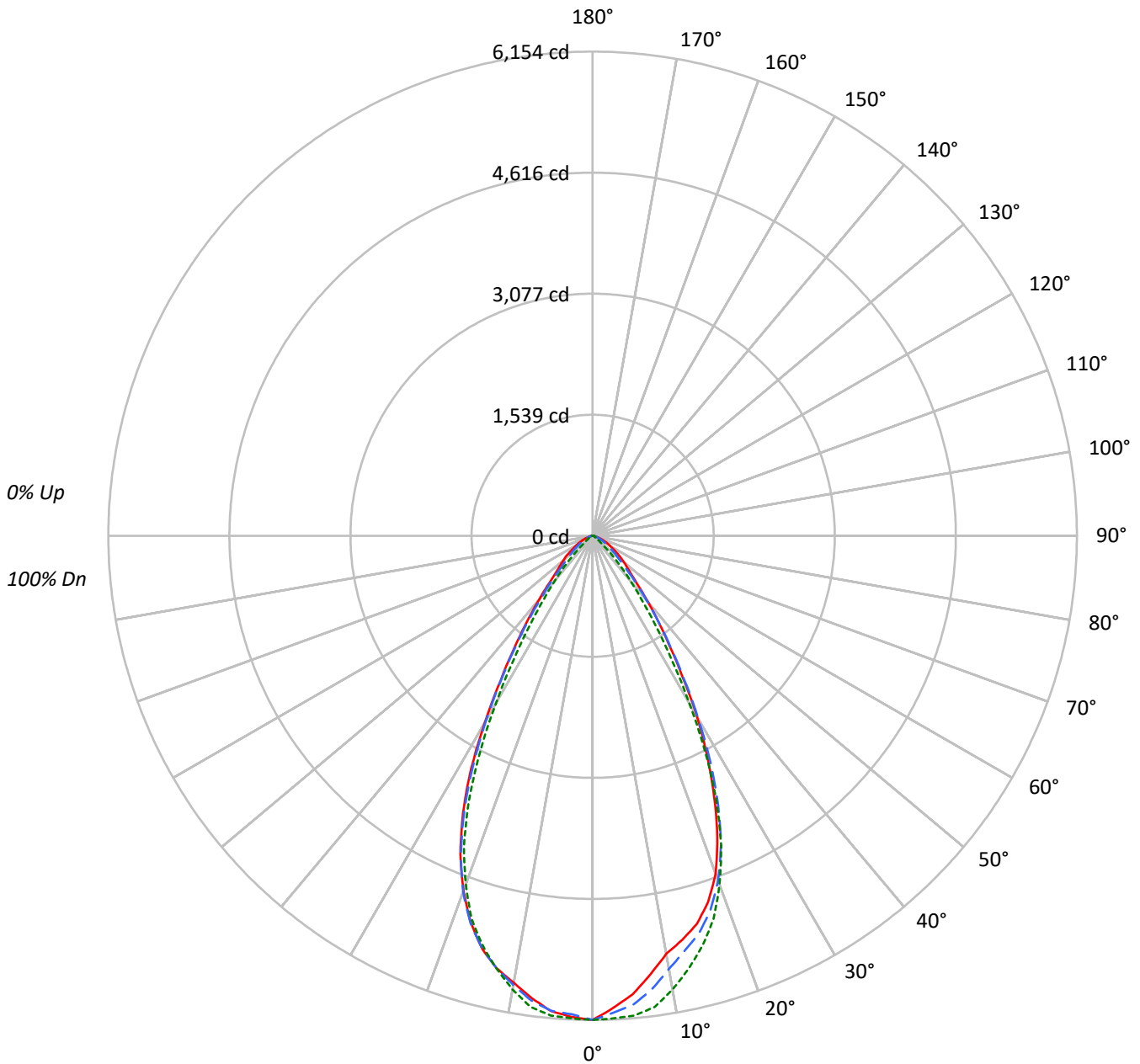
Lumens per Lamp: N/A
Luminaire Lumens: 5602.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	756003	756003	756003
5°	721389	754797	747755
10°	672820	730316	719650
15°	649711	685972	690805
20°	597642	616286	627464
25°	495341	504355	528836
30°	376820	348505	387601
35°	255140	208812	257989
40°	173749	119639	168425
45°	120542	60271	113939
50°	98086	24521	91721
55°	79378	15272	72267
60°	63048	11671	57201
65°	49738	9680	44215
70°	37536	8549	34124
75°	27056	6788	24825
80°	20163	6721	16838
85°	13391	6766	13391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.8	10.1
10°-20°	1486.6	26.5
20°-30°	1705.6	30.4
30°-40°	1036.1	18.5
40°-50°	444.1	7.9
50°-60°	213.0	3.8
60°-70°	103.6	1.8
70°-80°	38.4	0.7
80°-90°	8.9	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°	3757.9	67.1
0°-40°	4794.1	85.6
0°-60°	5451.1	97.3
0°-90°	5602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6154	6154	6154	6154	6154	
5°	5850	5978	6120	6059	6063	543
15°	5108	5227	5393	5427	5431	1422
25°	3654	3773	3721	3863	3901	1658
35°	1701	1725	1392	1682	1720	1090
45°	694	618	347	556	656	564
55°	371	276	71	247	337	335
65°	171	114	33	104	152	174
75°	57	38	14	33	52	63
85°	10	10	5	5	10	13
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°	6153.7	6153.7	6153.7	6153.7	6153.7	6153.7	6153.7	6153.7	6153.7
2.5°	6006.4	6072.9	6068.2	6125.2	6139.5	6125.2	6087.2	6125.2	6120.5
5°	5849.6	5925.6	5977.9	6072.9	6120.5	6110.9	6058.7	6068.2	6063.4
7.5°	5621.5	5716.5	5806.8	5949.4	6039.7	6034.9	5958.9	5944.6	5925.6
10°	5393.4	5483.7	5588.2	5735.5	5854.3	5873.4	5797.3	5778.3	5768.8
12.5°	5260.4	5331.6	5402.9	5531.2	5635.8	5673.8	5631.0	5635.8	5631.0
15°	5108.3	5179.6	5227.1	5322.1	5393.4	5445.7	5426.7	5455.2	5431.4
17.5°	4880.2	4965.7	4984.7	5056.0	5108.3	5141.6	5160.6	5189.1	5151.1
20°	4571.3	4637.9	4661.6	4690.1	4713.9	4756.7	4813.7	4842.2	4799.4
22.5°	4138.9	4267.2	4262.5	4248.2	4272.0	4286.2	4376.5	4424.0	4390.8
25°	3654.2	3787.3	3773.0	3716.0	3720.7	3749.3	3863.3	3925.1	3901.3
27.5°	3145.8	3269.3	3236.0	3126.8	3098.2	3141.0	3288.3	3359.6	3345.3
30°	2656.3	2737.1	2684.8	2490.0	2456.7	2509.0	2699.1	2770.4	2732.3
32.5°	2128.9	2190.6	2166.9	1929.3	1872.3	1924.5	2147.9	2214.4	2171.6
35°	1701.2	1758.2	1724.9	1444.6	1392.3	1449.3	1682.2	1758.2	1720.2
37.5°	1363.8	1406.6	1363.8	1064.4	1016.9	1073.9	1297.3	1397.1	1349.5
40°	1083.4	1116.7	1059.7	784.1	746.0	774.6	983.6	1083.4	1050.2
42.5°	855.3	879.1	817.3	575.0	532.2	570.2	741.3	831.6	812.6
45°	693.8	693.8	617.7	399.2	346.9	384.9	556.0	651.0	655.8
47.5°	594.0	579.7	484.7	266.1	199.6	251.9	441.9	541.7	556.0
50°	513.2	494.2	399.2	194.8	128.3	180.6	365.9	465.7	479.9
52.5°	441.9	427.7	332.6	152.1	90.3	137.8	308.9	403.9	418.2
55°	370.6	361.1	275.6	118.8	71.3	104.5	247.1	327.9	337.4
57.5°	304.1	289.9	223.3	99.8	57.0	85.5	204.3	270.9	280.4
60°	256.6	242.3	180.6	80.8	47.5	66.5	166.3	223.3	232.8
62.5°	213.8	199.6	147.3	66.5	38.0	57.0	133.1	180.6	190.1
65°	171.1	161.6	114.0	52.3	33.3	42.8	104.5	142.6	152.1
67.5°	137.8	128.3	90.3	42.8	28.5	33.3	80.8	114.0	123.5
70°	104.5	95.0	66.5	33.3	23.8	28.5	61.8	85.5	95.0
72.5°	76.0	71.3	52.3	28.5	19.0	23.8	42.8	61.8	71.3
75°	57.0	52.3	38.0	19.0	14.3	19.0	33.3	47.5	52.3
77.5°	38.0	38.0	28.5	14.3	14.3	14.3	23.8	33.3	33.3
80°	28.5	23.8	19.0	9.5	9.5	9.5	14.3	23.8	23.8
82.5°	19.0	14.3	14.3	9.5	9.5	9.5	9.5	14.3	14.3
85°	9.5	9.5	9.5	4.8	4.8	4.8	4.8	9.5	9.5
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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)