

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: P859255

Luminaire Tested: **LD4C60D010 EU4609050 4LBMDSWWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859255
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: LD4C60D010 EU4609050 4LBMDSWWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

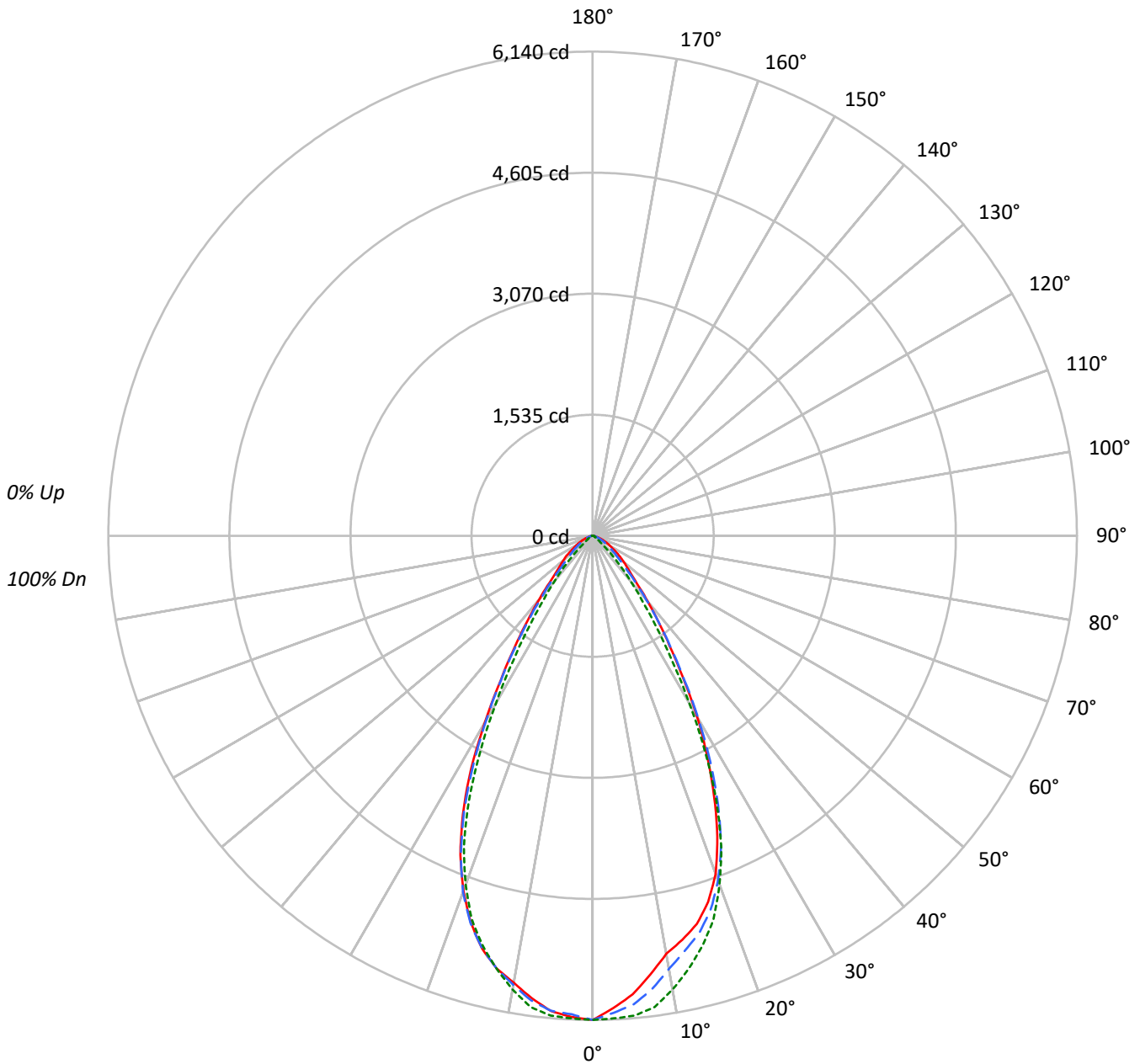
Lumens per Lamp: N/A
Luminaire Lumens: 5590.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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									
RC	80									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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	754382	754382	754382
5°	719847	753169	746152
10°	671385	728757	718116
15°	648324	684509	689330
20°	596361	614965	626117
25°	494283	503284	527711
30°	376011	347767	386778
35°	254585	208362	257434
40°	173380	119398	168056
45°	120281	60132	113696
50°	97876	24464	91530
55°	79228	15229	72117
60°	62926	11647	57078
65°	49622	9651	44099
70°	37465	8513	34052
75°	27009	6740	24778
80°	20163	6721	16767
85°	13391	6625	13391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.6	10.1
10°-20°	1483.4	26.5
20°-30°	1701.9	30.4
30°-40°	1033.9	18.5
40°-50°	443.1	7.9
50°-60°	212.6	3.8
60°-70°	103.4	1.8
70°-80°	38.4	0.7
80°-90°	8.8	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°	3749.9	67.1
0°-40°	4783.8	85.6
0°-60°	5439.5	97.3
0°-90°	5590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5590.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6140	6140	6140	6140	6140	
5°	5837	5965	6107	6046	6050	542
15°	5097	5216	5382	5415	5420	1419
25°	3646	3765	3713	3855	3893	1654
35°	1698	1721	1389	1679	1716	1088
45°	692	616	346	555	654	562
55°	370	275	71	247	337	334
65°	171	114	33	104	152	173
75°	57	38	14	33	52	62
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°	6140.5	6140.5	6140.5	6140.5	6140.5	6140.5	6140.5	6140.5	6140.5
2.5°	5993.5	6059.9	6055.2	6112.1	6126.3	6112.1	6074.1	6112.1	6107.3
5°	5837.1	5912.9	5965.1	6059.9	6107.3	6097.9	6045.7	6055.2	6050.4
7.5°	5609.5	5704.3	5794.4	5936.6	6026.7	6022.0	5946.1	5931.9	5912.9
10°	5381.9	5472.0	5576.3	5723.3	5841.8	5860.8	5784.9	5765.9	5756.5
12.5°	5249.1	5320.2	5391.3	5519.4	5623.7	5661.6	5618.9	5623.7	5618.9
15°	5097.4	5168.5	5215.9	5310.7	5381.9	5434.0	5415.0	5443.5	5419.8
17.5°	4869.8	4955.1	4974.1	5045.2	5097.4	5130.5	5149.5	5178.0	5140.0
20°	4561.5	4627.9	4651.6	4680.1	4703.8	4746.5	4803.4	4831.8	4789.1
22.5°	4130.0	4258.1	4253.3	4239.1	4262.8	4277.0	4367.1	4414.5	4381.4
25°	3646.4	3779.2	3764.9	3708.0	3712.8	3741.2	3855.0	3916.7	3893.0
27.5°	3139.0	3262.3	3229.1	3120.1	3091.6	3134.3	3281.3	3352.4	3338.2
30°	2650.6	2731.2	2679.1	2484.7	2451.5	2503.6	2693.3	2764.4	2726.5
32.5°	2124.3	2185.9	2162.2	1925.1	1868.2	1920.4	2143.3	2209.6	2167.0
35°	1697.5	1754.4	1721.2	1441.5	1389.3	1446.2	1678.6	1754.4	1716.5
37.5°	1360.9	1403.6	1360.9	1062.1	1014.7	1071.6	1294.5	1394.1	1346.6
40°	1081.1	1114.3	1057.4	782.4	744.5	772.9	981.5	1081.1	1047.9
42.5°	853.5	877.2	815.6	573.7	531.1	569.0	739.7	829.8	810.8
45°	692.3	692.3	616.4	398.3	346.1	384.1	554.8	649.6	654.4
47.5°	592.7	578.5	483.7	265.5	199.2	251.3	441.0	540.6	554.8
50°	512.1	493.1	398.3	194.4	128.0	180.2	365.1	464.7	478.9
52.5°	441.0	426.8	331.9	151.7	90.1	137.5	308.2	403.0	417.3
55°	369.9	360.4	275.0	118.5	71.1	104.3	246.6	327.2	336.7
57.5°	303.5	289.2	222.9	99.6	56.9	85.4	203.9	270.3	279.8
60°	256.1	241.8	180.2	80.6	47.4	66.4	166.0	222.9	232.3
62.5°	213.4	199.2	147.0	66.4	37.9	56.9	132.8	180.2	189.7
65°	170.7	161.2	113.8	52.2	33.2	42.7	104.3	142.3	151.7
67.5°	137.5	128.0	90.1	42.7	28.5	33.2	80.6	113.8	123.3
70°	104.3	94.8	66.4	33.2	23.7	28.5	61.6	85.4	94.8
72.5°	75.9	71.1	52.2	28.5	19.0	23.7	42.7	61.6	71.1
75°	56.9	52.2	37.9	19.0	14.2	19.0	33.2	47.4	52.2
77.5°	37.9	37.9	28.5	14.2	14.2	14.2	23.7	33.2	33.2
80°	28.5	23.7	19.0	9.5	9.5	9.5	14.2	23.7	23.7
82.5°	19.0	14.2	14.2	9.5	9.5	9.5	9.5	14.2	14.2
85°	9.5	9.5	9.5	4.7	4.7	4.7	4.7	9.5	9.5
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)