

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: P859254

Luminaire Tested: **LD4C60D010 EU4609050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859254
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 4LBMDSWMW
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

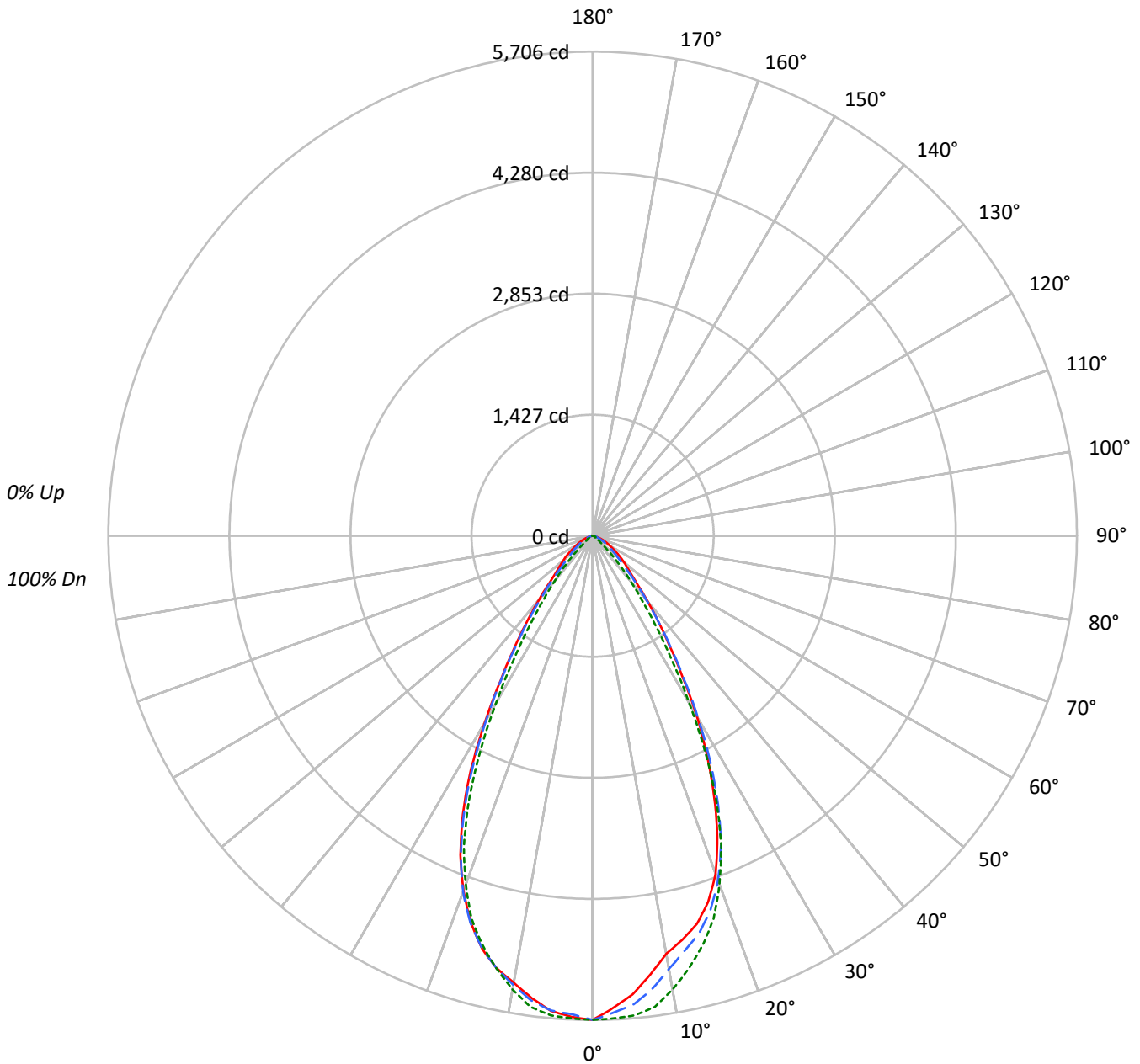
Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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					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	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°	700941	700941	700941
5°	668853	699820	693296
10°	623818	677136	667243
15°	602397	636013	640490
20°	554120	571403	581771
25°	459270	467634	490325
30°	349384	323126	359371
35°	236558	193605	239197
40°	161096	110931	156156
45°	111750	55875	105635
50°	90938	22744	85051
55°	73617	14158	66998
60°	58454	10836	53048
65°	46104	8953	40988
70°	34806	7902	31645
75°	25110	6266	23021
80°	18678	6226	15565
85°	12404	6202	12404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.6	10.1
10°-20°	1378.3	26.5
20°-30°	1581.4	30.4
30°-40°	960.7	18.5
40°-50°	411.7	7.9
50°-60°	197.5	3.8
60°-70°	96.0	1.8
70°-80°	35.6	0.7
80°-90°	8.2	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°	3484.2	67.1
0°-40°	4444.9	85.6
0°-60°	5054.1	97.3
0°-90°	5194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5706	5706	5706	5706	5706	
5°	5424	5542	5675	5617	5622	504
15°	4736	4846	5001	5031	5036	1319
25°	3388	3498	3450	3582	3617	1537
35°	1577	1599	1291	1560	1595	1011
45°	643	573	322	516	608	523
55°	344	256	66	229	313	310
65°	159	106	31	97	141	161
75°	53	35	13	31	48	58
85°	9	9	4	4	9	12
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°	5705.5	5705.5	5705.5	5705.5	5705.5	5705.5	5705.5	5705.5	5705.5
2.5°	5569.0	5630.6	5626.2	5679.1	5692.3	5679.1	5643.9	5679.1	5674.7
5°	5423.6	5494.1	5542.5	5630.6	5674.7	5665.9	5617.4	5626.2	5621.8
7.5°	5212.1	5300.2	5383.9	5516.1	5599.8	5595.4	5524.9	5511.7	5494.1
10°	5000.6	5084.3	5181.2	5317.8	5428.0	5445.6	5375.1	5357.5	5348.7
12.5°	4877.2	4943.3	5009.4	5128.4	5225.3	5260.5	5220.9	5225.3	5220.9
15°	4736.3	4802.3	4846.4	4934.5	5000.6	5049.1	5031.4	5057.9	5035.8
17.5°	4524.8	4604.1	4621.7	4687.8	4736.3	4767.1	4784.7	4811.2	4775.9
20°	4238.4	4300.1	4322.1	4348.5	4370.6	4410.2	4463.1	4489.5	4449.9
22.5°	3837.5	3956.4	3952.0	3938.8	3960.8	3974.0	4057.8	4101.8	4071.0
25°	3388.1	3511.4	3498.2	3445.3	3449.8	3476.2	3581.9	3639.2	3617.2
27.5°	2916.7	3031.2	3000.4	2899.0	2872.6	2912.2	3048.8	3114.9	3101.7
30°	2462.9	2537.8	2489.3	2308.6	2277.8	2326.3	2502.5	2568.6	2533.3
32.5°	1973.8	2031.1	2009.1	1788.8	1735.9	1784.4	1991.4	2053.1	2013.5
35°	1577.3	1630.2	1599.3	1339.4	1290.9	1343.8	1559.7	1630.2	1594.9
37.5°	1264.5	1304.1	1264.5	986.9	942.8	995.7	1202.8	1295.3	1251.3
40°	1004.5	1035.4	982.5	727.0	691.7	718.1	912.0	1004.5	973.7
42.5°	793.0	815.1	757.8	533.1	493.5	528.7	687.3	771.0	753.4
45°	643.2	643.2	572.8	370.1	321.6	356.9	515.5	603.6	608.0
47.5°	550.7	537.5	449.4	246.7	185.0	233.5	409.7	502.3	515.5
50°	475.8	458.2	370.1	180.6	119.0	167.4	339.2	431.8	445.0
52.5°	409.7	396.5	308.4	141.0	83.7	127.8	286.4	374.5	387.7
55°	343.7	334.8	255.5	110.1	66.1	96.9	229.1	304.0	312.8
57.5°	282.0	268.8	207.1	92.5	52.9	79.3	189.5	251.1	259.9
60°	237.9	224.7	167.4	74.9	44.1	61.7	154.2	207.1	215.9
62.5°	198.3	185.0	136.6	61.7	35.2	52.9	123.4	167.4	176.2
65°	158.6	149.8	105.7	48.5	30.8	39.7	96.9	132.2	141.0
67.5°	127.8	119.0	83.7	39.7	26.4	30.8	74.9	105.7	114.6
70°	96.9	88.1	61.7	30.8	22.0	26.4	57.3	79.3	88.1
72.5°	70.5	66.1	48.5	26.4	17.6	22.0	39.7	57.3	66.1
75°	52.9	48.5	35.2	17.6	13.2	17.6	30.8	44.1	48.5
77.5°	35.2	35.2	26.4	13.2	13.2	13.2	22.0	30.8	30.8
80°	26.4	22.0	17.6	8.8	8.8	8.8	13.2	22.0	22.0
82.5°	17.6	13.2	13.2	8.8	8.8	8.8	8.8	13.2	13.2
85°	8.8	8.8	8.8	4.4	4.4	4.4	4.4	8.8	8.8
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)