

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: P859189

Luminaire Tested: **LD4C60D010 EU4609030 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859189
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 EU4609030 4LBMDSWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

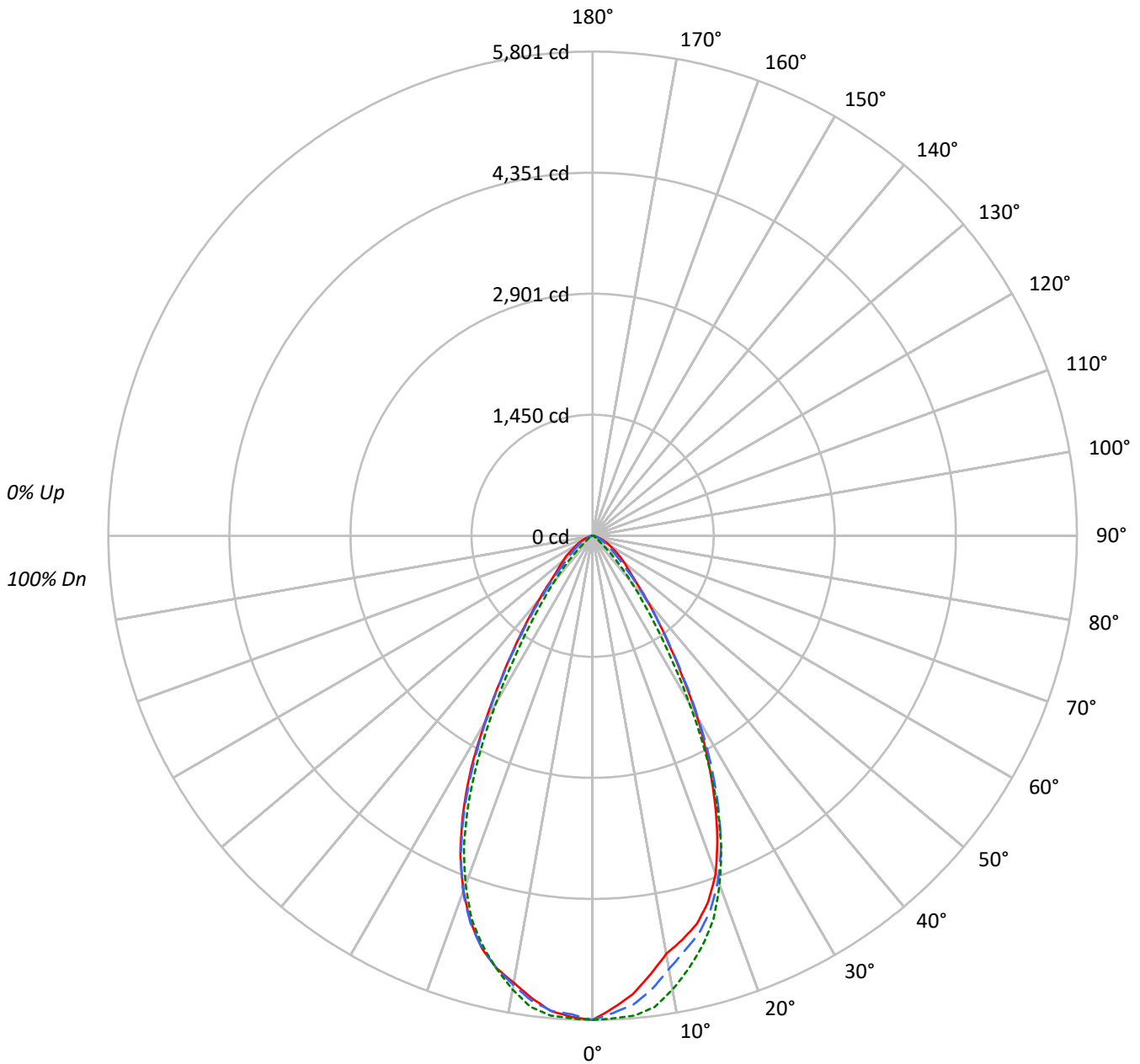
Lumens per Lamp: N/A
Luminaire Lumens: 5281.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	712685	712685	712685
5°	680051	711535	704913
10°	634272	688476	678421
15°	612483	646671	651224
20°	563402	580973	591511
25°	466956	475455	498540
30°	355229	328545	365400
35°	240517	196844	243202
40°	163806	112791	158770
45°	113627	56813	107407
50°	92467	23107	86465
55°	74837	14393	68133
60°	59437	11008	53933
65°	46889	9128	41657
70°	35417	8046	32184
75°	25537	6361	23401
80°	19031	6367	15848
85°	12686	6343	12686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.4	10.1
10°-20°	1401.4	26.5
20°-30°	1607.9	30.4
30°-40°	976.8	18.5
40°-50°	418.6	7.9
50°-60°	200.8	3.8
60°-70°	97.6	1.8
70°-80°	36.2	0.7
80°-90°	8.4	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°	3542.6	67.1
0°-40°	4519.4	85.6
0°-60°	5138.8	97.3
0°-90°	5281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5281.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5801	5801	5801	5801	5801	
5°	5514	5635	5770	5712	5716	512
15°	4816	4928	5084	5116	5120	1341
25°	3445	3557	3508	3642	3678	1563
35°	1604	1626	1312	1586	1622	1028
45°	654	582	327	524	618	531
55°	349	260	67	233	318	315
65°	161	108	31	99	143	164
75°	54	36	13	31	49	59
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°	5801.1	5801.1	5801.1	5801.1	5801.1	5801.1	5801.1	5801.1	5801.1
2.5°	5662.2	5724.9	5720.5	5774.2	5787.7	5774.2	5738.4	5774.2	5769.7
5°	5514.4	5586.1	5635.4	5724.9	5769.7	5760.8	5711.5	5720.5	5716.0
7.5°	5299.4	5389.0	5474.1	5608.5	5693.6	5689.1	5617.4	5604.0	5586.1
10°	5084.4	5169.5	5268.0	5406.9	5518.9	5536.8	5465.1	5447.2	5438.3
12.5°	4958.9	5026.1	5093.3	5214.3	5312.8	5348.7	5308.3	5312.8	5308.3
15°	4815.6	4882.8	4927.6	5017.2	5084.4	5133.6	5115.7	5142.6	5120.2
17.5°	4600.6	4681.2	4699.1	4766.3	4815.6	4846.9	4864.9	4891.7	4855.9
20°	4309.4	4372.1	4394.5	4421.4	4443.8	4484.1	4537.9	4564.7	4524.4
22.5°	3901.7	4022.7	4018.2	4004.8	4027.2	4040.6	4125.7	4170.5	4139.2
25°	3444.8	3570.3	3556.8	3503.1	3507.5	3534.4	3641.9	3700.2	3677.8
27.5°	2965.5	3082.0	3050.6	2947.6	2920.7	2961.0	3099.9	3167.1	3153.6
30°	2504.1	2580.3	2531.0	2347.3	2316.0	2365.2	2544.4	2611.6	2575.8
32.5°	2006.9	2065.1	2042.7	1818.7	1765.0	1814.2	2024.8	2087.5	2047.2
35°	1603.7	1657.5	1626.1	1361.8	1312.5	1366.3	1585.8	1657.5	1621.6
37.5°	1285.6	1326.0	1285.6	1003.4	958.6	1012.4	1222.9	1317.0	1272.2
40°	1021.4	1052.7	999.0	739.1	703.3	730.2	927.3	1021.4	990.0
42.5°	806.3	828.7	770.5	542.0	501.7	537.6	698.8	783.9	766.0
45°	654.0	654.0	582.3	376.3	327.0	362.8	524.1	613.7	618.2
47.5°	560.0	546.5	456.9	250.9	188.1	237.4	416.6	510.7	524.1
50°	483.8	465.9	376.3	183.7	120.9	170.2	344.9	439.0	452.4
52.5°	416.6	403.2	313.6	143.3	85.1	129.9	291.2	380.8	394.2
55°	349.4	340.5	259.8	112.0	67.2	98.6	232.9	309.1	318.1
57.5°	286.7	273.3	210.5	94.1	53.8	80.6	192.6	255.3	264.3
60°	241.9	228.5	170.2	76.2	44.8	62.7	156.8	210.5	219.5
62.5°	201.6	188.1	138.9	62.7	35.8	53.8	125.4	170.2	179.2
65°	161.3	152.3	107.5	49.3	31.4	40.3	98.6	134.4	143.3
67.5°	129.9	120.9	85.1	40.3	26.9	31.4	76.2	107.5	116.5
70°	98.6	89.6	62.7	31.4	22.4	26.9	58.2	80.6	89.6
72.5°	71.7	67.2	49.3	26.9	17.9	22.4	40.3	58.2	67.2
75°	53.8	49.3	35.8	17.9	13.4	17.9	31.4	44.8	49.3
77.5°	35.8	35.8	26.9	13.4	13.4	13.4	22.4	31.4	31.4
80°	26.9	22.4	17.9	9.0	9.0	9.0	13.4	22.4	22.4
82.5°	17.9	13.4	13.4	9.0	9.0	9.0	9.0	13.4	13.4
85°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	9.0	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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)