

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: P859169

Luminaire Tested: **LD4C60D010 EU4609027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859169
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 EU4609027 4LBMDSWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

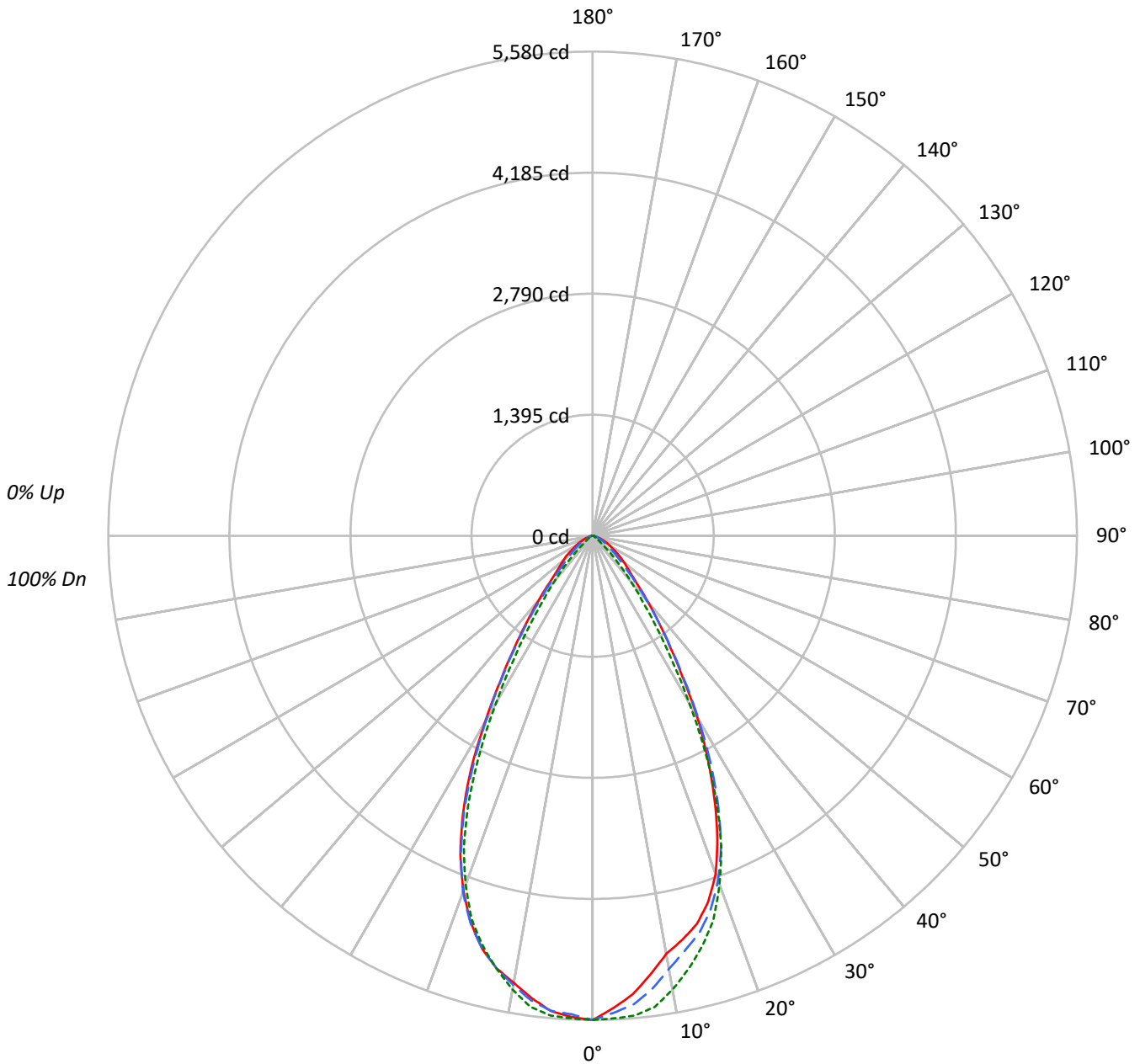
Lumens per Lamp: N/A
Luminaire Lumens: 5080.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	685559	685559	685559
5°	654166	684454	678078
10°	610121	662266	652598
15°	589170	622048	626435
20°	541961	558852	568998
25°	449185	457359	479562
30°	341710	316033	351484
35°	231369	189360	233948
40°	157567	108493	152724
45°	109300	54659	103324
50°	88950	22228	83178
55°	71989	13837	65520
60°	57176	10590	51869
65°	45087	8779	40087
70°	34052	7723	30963
75°	24540	6123	22499
80°	18324	6084	15211
85°	12122	6061	12122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	10.1
10°-20°	1348.0	26.5
20°-30°	1546.7	30.4
30°-40°	939.6	18.5
40°-50°	402.7	7.9
50°-60°	193.2	3.8
60°-70°	93.9	1.8
70°-80°	34.8	0.7
80°-90°	8.0	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°	3407.8	67.1
0°-40°	4347.3	85.6
0°-60°	4943.2	97.3
0°-90°	5080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5580	5580	5580	5580	5580	
5°	5304	5421	5550	5494	5498	493
15°	4632	4740	4891	4921	4925	1290
25°	3314	3421	3374	3503	3538	1503
35°	1543	1564	1263	1525	1560	989
45°	629	560	315	504	595	511
55°	336	250	65	224	306	303
65°	155	103	30	95	138	157
75°	52	34	13	30	47	57
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°	5580.3	5580.3	5580.3	5580.3	5580.3	5580.3	5580.3	5580.3	5580.3
2.5°	5446.7	5507.1	5502.7	5554.5	5567.4	5554.5	5520.0	5554.5	5550.1
5°	5304.5	5373.5	5420.9	5507.1	5550.1	5541.5	5494.1	5502.7	5498.4
7.5°	5097.7	5183.9	5265.7	5395.0	5476.9	5472.6	5403.6	5390.7	5373.5
10°	4890.8	4972.7	5067.5	5201.1	5308.8	5326.1	5257.1	5239.9	5231.3
12.5°	4770.2	4834.8	4899.5	5015.8	5110.6	5145.1	5106.3	5110.6	5106.3
15°	4632.3	4696.9	4740.0	4826.2	4890.8	4938.2	4921.0	4946.9	4925.3
17.5°	4425.5	4503.0	4520.3	4584.9	4632.3	4662.5	4679.7	4705.6	4671.1
20°	4145.4	4205.7	4227.2	4253.1	4274.6	4313.4	4365.1	4391.0	4352.2
22.5°	3753.2	3869.6	3865.3	3852.4	3873.9	3886.8	3968.7	4011.8	3981.6
25°	3313.7	3434.4	3421.4	3369.7	3374.0	3399.9	3503.3	3559.3	3537.8
27.5°	2852.6	2964.7	2934.5	2835.4	2809.5	2848.3	2981.9	3046.5	3033.6
30°	2408.8	2482.1	2434.7	2258.0	2227.8	2275.2	2447.6	2512.2	2477.7
32.5°	1930.5	1986.5	1965.0	1749.5	1697.8	1745.2	1947.7	2008.0	1969.3
35°	1542.7	1594.4	1564.2	1310.0	1262.6	1314.3	1525.4	1594.4	1559.9
37.5°	1236.7	1275.5	1236.7	965.2	922.2	973.9	1176.4	1266.9	1223.8
40°	982.5	1012.6	960.9	711.0	676.5	702.4	892.0	982.5	952.3
42.5°	775.6	797.2	741.2	521.4	482.6	517.1	672.2	754.1	736.9
45°	629.1	629.1	560.2	362.0	314.6	349.0	504.2	590.3	594.7
47.5°	538.6	525.7	439.5	241.3	181.0	228.4	400.7	491.2	504.2
50°	465.4	448.1	362.0	176.7	116.3	163.7	331.8	422.3	435.2
52.5°	400.7	387.8	301.6	137.9	81.9	125.0	280.1	366.3	379.2
55°	336.1	327.5	249.9	107.7	64.6	94.8	224.1	297.3	305.9
57.5°	275.8	262.9	202.5	90.5	51.7	77.6	185.3	245.6	254.2
60°	232.7	219.8	163.7	73.3	43.1	60.3	150.8	202.5	211.1
62.5°	193.9	181.0	133.6	60.3	34.5	51.7	120.7	163.7	172.4
65°	155.1	146.5	103.4	47.4	30.2	38.8	94.8	129.3	137.9
67.5°	125.0	116.3	81.9	38.8	25.9	30.2	73.3	103.4	112.0
70°	94.8	86.2	60.3	30.2	21.5	25.9	56.0	77.6	86.2
72.5°	68.9	64.6	47.4	25.9	17.2	21.5	38.8	56.0	64.6
75°	51.7	47.4	34.5	17.2	12.9	17.2	30.2	43.1	47.4
77.5°	34.5	34.5	25.9	12.9	12.9	12.9	21.5	30.2	30.2
80°	25.9	21.5	17.2	8.6	8.6	8.6	12.9	21.5	21.5
82.5°	17.2	12.9	12.9	8.6	8.6	8.6	8.6	12.9	12.9
85°	8.6	8.6	8.6	4.3	4.3	4.3	4.3	8.6	8.6
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)