

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: P859250

Luminaire Tested: **LD4C60D010 EU4609050 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859250
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 4LBMDDWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

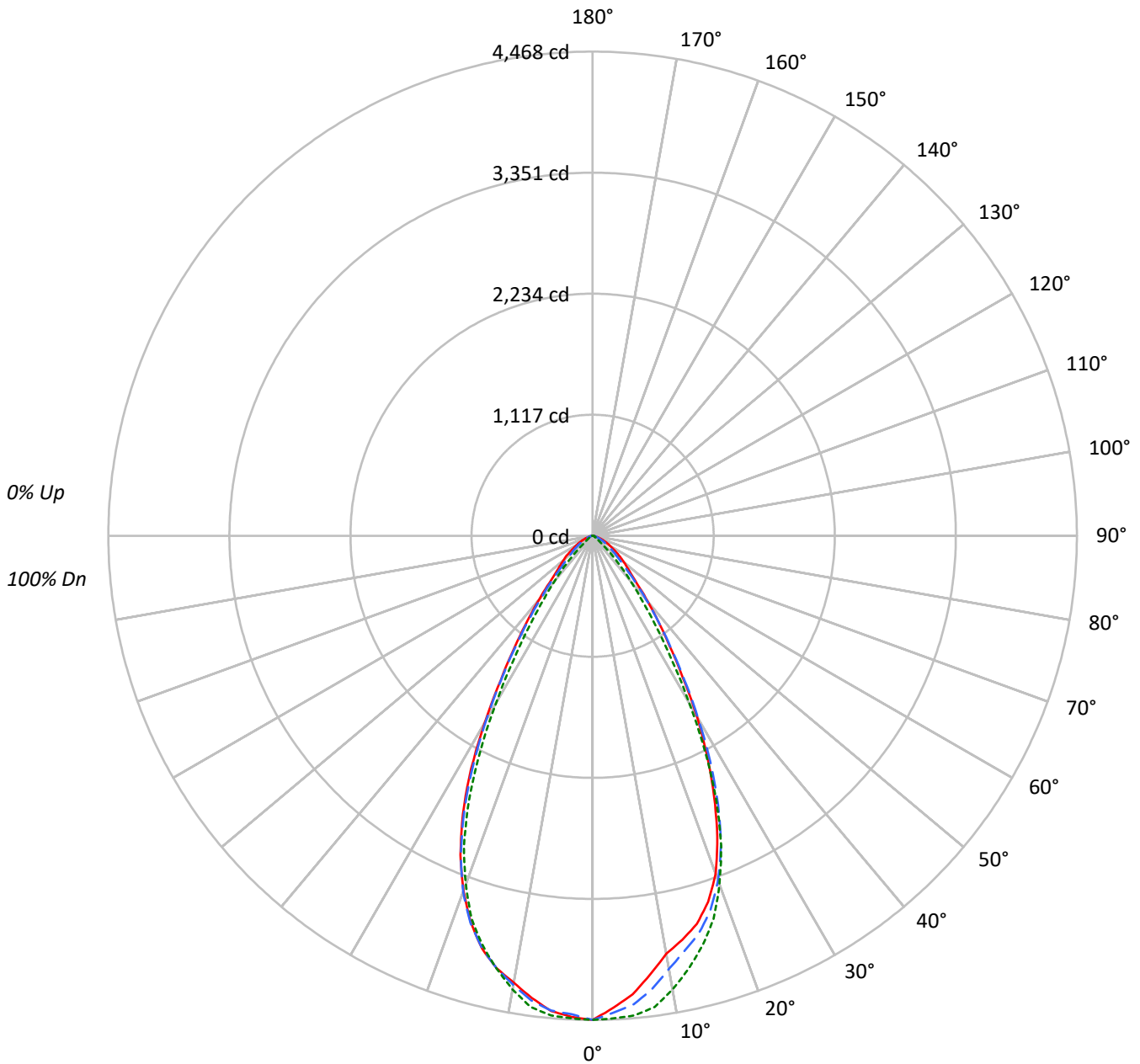
Lumens per Lamp: N/A
Luminaire Lumens: 4066.9 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	548848	548848	548848
5°	523727	547972	542867
10°	488466	530207	522460
15°	471687	498015	501525
20°	433880	447411	455530
25°	359611	366158	383929
30°	273575	253020	281406
35°	185221	151596	187291
40°	126150	86858	122269
45°	87513	43748	82718
50°	71214	17794	66588
55°	57638	11074	52455
60°	45775	8477	41524
65°	36104	7006	32093
70°	27263	6178	24785
75°	19651	4889	17990
80°	14645	4882	12169
85°	9726	4793	9726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.8	10.1
10°-20°	1079.2	26.5
20°-30°	1238.2	30.4
30°-40°	752.2	18.5
40°-50°	322.4	7.9
50°-60°	154.6	3.8
60°-70°	75.2	1.8
70°-80°	27.9	0.7
80°-90°	6.4	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°	2728.2	67.1
0°-40°	3480.4	85.6
0°-60°	3957.5	97.3
0°-90°	4066.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4468	4468	4468	4468	4468	
5°	4247	4340	4443	4398	4402	395
15°	3709	3795	3916	3940	3943	1033
25°	2653	2739	2701	2805	2832	1203
35°	1235	1252	1011	1221	1249	792
45°	504	448	252	404	476	409
55°	269	200	52	179	245	243
65°	124	83	24	76	110	126
75°	41	28	10	24	38	45
85°	7	7	3	3	7	9
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°	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5
2.5°	4360.6	4408.9	4405.4	4446.8	4457.2	4446.8	4419.2	4446.8	4443.4
5°	4246.8	4301.9	4339.9	4408.9	4443.4	4436.5	4398.5	4405.4	4402.0
7.5°	4081.2	4150.2	4215.7	4319.2	4384.7	4381.3	4326.1	4315.7	4301.9
10°	3915.6	3981.1	4057.0	4164.0	4250.2	4264.0	4208.8	4195.0	4188.1
12.5°	3819.0	3870.7	3922.5	4015.6	4091.5	4119.1	4088.1	4091.5	4088.1
15°	3708.6	3760.3	3794.8	3863.8	3915.6	3953.5	3939.7	3960.4	3943.2
17.5°	3543.0	3605.1	3618.9	3670.6	3708.6	3732.7	3746.5	3767.2	3739.6
20°	3318.7	3367.0	3384.3	3405.0	3422.2	3453.3	3494.7	3515.4	3484.3
22.5°	3004.8	3098.0	3094.5	3084.2	3101.4	3111.8	3177.3	3211.8	3187.7
25°	2652.9	2749.5	2739.2	2697.8	2701.2	2721.9	2804.7	2849.6	2832.3
27.5°	2283.8	2373.5	2349.3	2270.0	2249.3	2280.3	2387.3	2439.0	2428.7
30°	1928.5	1987.1	1949.2	1807.7	1783.6	1821.5	1959.5	2011.3	1983.7
32.5°	1545.5	1590.4	1573.1	1400.6	1359.2	1397.2	1559.3	1607.6	1576.6
35°	1235.0	1276.4	1252.3	1048.8	1010.8	1052.2	1221.2	1276.4	1248.8
37.5°	990.1	1021.2	990.1	772.8	738.3	779.7	941.8	1014.3	979.8
40°	786.6	810.7	769.3	569.2	541.6	562.3	714.1	786.6	762.4
42.5°	621.0	638.2	593.4	417.4	386.4	414.0	538.2	603.7	589.9
45°	503.7	503.7	448.5	289.8	251.8	279.4	403.6	472.6	476.1
47.5°	431.2	420.9	351.9	193.2	144.9	182.8	320.8	393.3	403.6
50°	372.6	358.8	289.8	141.4	93.1	131.1	265.6	338.1	348.4
52.5°	320.8	310.5	241.5	110.4	65.5	100.0	224.2	293.2	303.6
55°	269.1	262.2	200.1	86.2	51.7	75.9	179.4	238.0	244.9
57.5°	220.8	210.4	162.1	72.4	41.4	62.1	148.3	196.6	203.5
60°	186.3	175.9	131.1	58.6	34.5	48.3	120.7	162.1	169.0
62.5°	155.2	144.9	106.9	48.3	27.6	41.4	96.6	131.1	138.0
65°	124.2	117.3	82.8	37.9	24.1	31.0	75.9	103.5	110.4
67.5°	100.0	93.1	65.5	31.0	20.7	24.1	58.6	82.8	89.7
70°	75.9	69.0	48.3	24.1	17.2	20.7	44.8	62.1	69.0
72.5°	55.2	51.7	37.9	20.7	13.8	17.2	31.0	44.8	51.7
75°	41.4	37.9	27.6	13.8	10.3	13.8	24.1	34.5	37.9
77.5°	27.6	27.6	20.7	10.3	10.3	10.3	17.2	24.1	24.1
80°	20.7	17.2	13.8	6.9	6.9	6.9	10.3	17.2	17.2
82.5°	13.8	10.3	10.3	6.9	6.9	6.9	6.9	10.3	10.3
85°	6.9	6.9	6.9	3.4	3.4	3.4	3.4	6.9	6.9
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)