

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: P859193

Luminaire Tested: **LD4C60D010 EU4609030 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859193
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 4LBMDSWWMH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

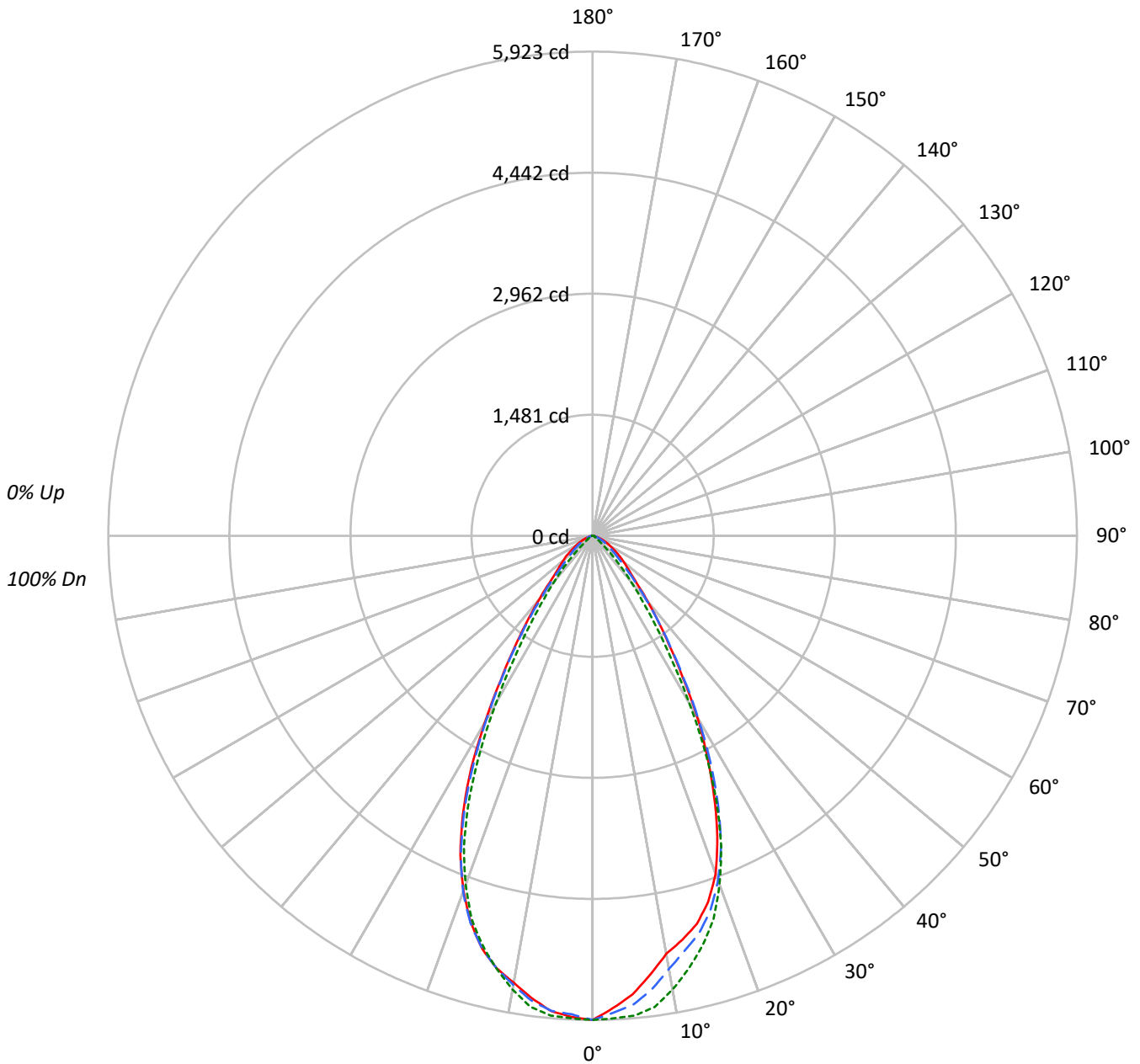
Lumens per Lamp: N/A
Luminaire Lumens: 5392.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	727661	727661	727661
5°	694344	726494	719724
10°	647595	702946	692680
15°	625354	660255	664910
20°	575247	593184	603944
25°	476770	485459	509018
30°	362691	335440	373075
35°	245571	200983	248316
40°	167238	115164	162106
45°	116024	58012	109665
50°	94416	23604	88300
55°	76422	14693	69547
60°	60690	11229	55063
65°	47878	9302	42558
70°	36135	8226	32867
75°	26059	6503	23876
80°	19385	6438	16201
85°	12827	6484	12827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	10.1
10°-20°	1430.8	26.5
20°-30°	1641.7	30.4
30°-40°	997.3	18.5
40°-50°	427.4	7.9
50°-60°	205.0	3.8
60°-70°	99.7	1.8
70°-80°	37.0	0.7
80°-90°	8.5	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°	3617.1	67.1
0°-40°	4614.3	85.6
0°-60°	5246.8	97.3
0°-90°	5392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5923	5923	5923	5923	5923	
5°	5630	5754	5891	5832	5836	523
15°	4917	5031	5191	5223	5228	1369
25°	3517	3632	3581	3718	3755	1596
35°	1637	1660	1340	1619	1656	1049
45°	668	595	334	535	631	543
55°	357	265	69	238	325	322
65°	165	110	32	101	146	167
75°	55	37	14	32	50	60
85°	9	9	5	5	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°	5923.0	5923.0	5923.0	5923.0	5923.0	5923.0	5923.0	5923.0	5923.0
2.5°	5781.2	5845.3	5840.7	5895.6	5909.3	5895.6	5859.0	5895.6	5891.0
5°	5630.3	5703.5	5753.8	5845.3	5891.0	5881.9	5831.6	5840.7	5836.1
7.5°	5410.8	5502.2	5589.1	5726.4	5813.3	5808.7	5735.5	5721.8	5703.5
10°	5191.2	5278.1	5378.8	5520.5	5634.9	5653.2	5580.0	5561.7	5552.6
12.5°	5063.2	5131.8	5200.4	5323.9	5424.5	5461.1	5419.9	5424.5	5419.9
15°	4916.8	4985.4	5031.1	5122.6	5191.2	5241.5	5223.2	5250.7	5227.8
17.5°	4697.3	4779.6	4797.9	4866.5	4916.8	4948.8	4967.1	4994.6	4958.0
20°	4400.0	4464.0	4486.9	4514.3	4537.2	4578.3	4633.2	4660.7	4619.5
22.5°	3983.8	4107.2	4102.7	4089.0	4111.8	4125.5	4212.4	4258.2	4226.2
25°	3517.2	3645.3	3631.6	3576.7	3581.3	3608.7	3718.5	3777.9	3755.1
27.5°	3027.8	3146.8	3114.7	3009.5	2982.1	3023.3	3165.0	3233.7	3219.9
30°	2556.7	2634.5	2584.2	2396.7	2364.6	2415.0	2597.9	2666.5	2629.9
32.5°	2049.0	2108.5	2085.6	1857.0	1802.1	1852.4	2067.3	2131.4	2090.2
35°	1637.4	1692.3	1660.3	1390.4	1340.1	1395.0	1619.1	1692.3	1655.7
37.5°	1312.7	1353.8	1312.7	1024.5	978.8	1033.7	1248.6	1344.7	1299.0
40°	1042.8	1074.8	1020.0	754.7	718.1	745.5	946.8	1042.8	1010.8
42.5°	823.3	846.1	786.7	553.4	512.3	548.9	713.5	800.4	782.1
45°	667.8	667.8	594.6	384.2	333.9	370.5	535.1	626.6	631.2
47.5°	571.7	558.0	466.5	256.1	192.1	242.4	425.4	521.4	535.1
50°	494.0	475.7	384.2	187.5	123.5	173.8	352.2	448.2	462.0
52.5°	425.4	411.6	320.2	146.4	86.9	132.6	297.3	388.8	402.5
55°	356.8	347.6	265.3	114.3	68.6	100.6	237.8	315.6	324.7
57.5°	292.7	279.0	215.0	96.0	54.9	82.3	196.7	260.7	269.9
60°	247.0	233.3	173.8	77.8	45.7	64.0	160.1	215.0	224.1
62.5°	205.8	192.1	141.8	64.0	36.6	54.9	128.1	173.8	183.0
65°	164.7	155.5	109.8	50.3	32.0	41.2	100.6	137.2	146.4
67.5°	132.6	123.5	86.9	41.2	27.4	32.0	77.8	109.8	118.9
70°	100.6	91.5	64.0	32.0	22.9	27.4	59.5	82.3	91.5
72.5°	73.2	68.6	50.3	27.4	18.3	22.9	41.2	59.5	68.6
75°	54.9	50.3	36.6	18.3	13.7	18.3	32.0	45.7	50.3
77.5°	36.6	36.6	27.4	13.7	13.7	13.7	22.9	32.0	32.0
80°	27.4	22.9	18.3	9.1	9.1	9.1	13.7	22.9	22.9
82.5°	18.3	13.7	13.7	9.1	9.1	9.1	9.1	13.7	13.7
85°	9.1	9.1	9.1	4.6	4.6	4.6	4.6	9.1	9.1
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)