

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: P859251

Luminaire Tested: **LD4C60D010 EU4609050 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859251
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 4LBMDSWGPH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

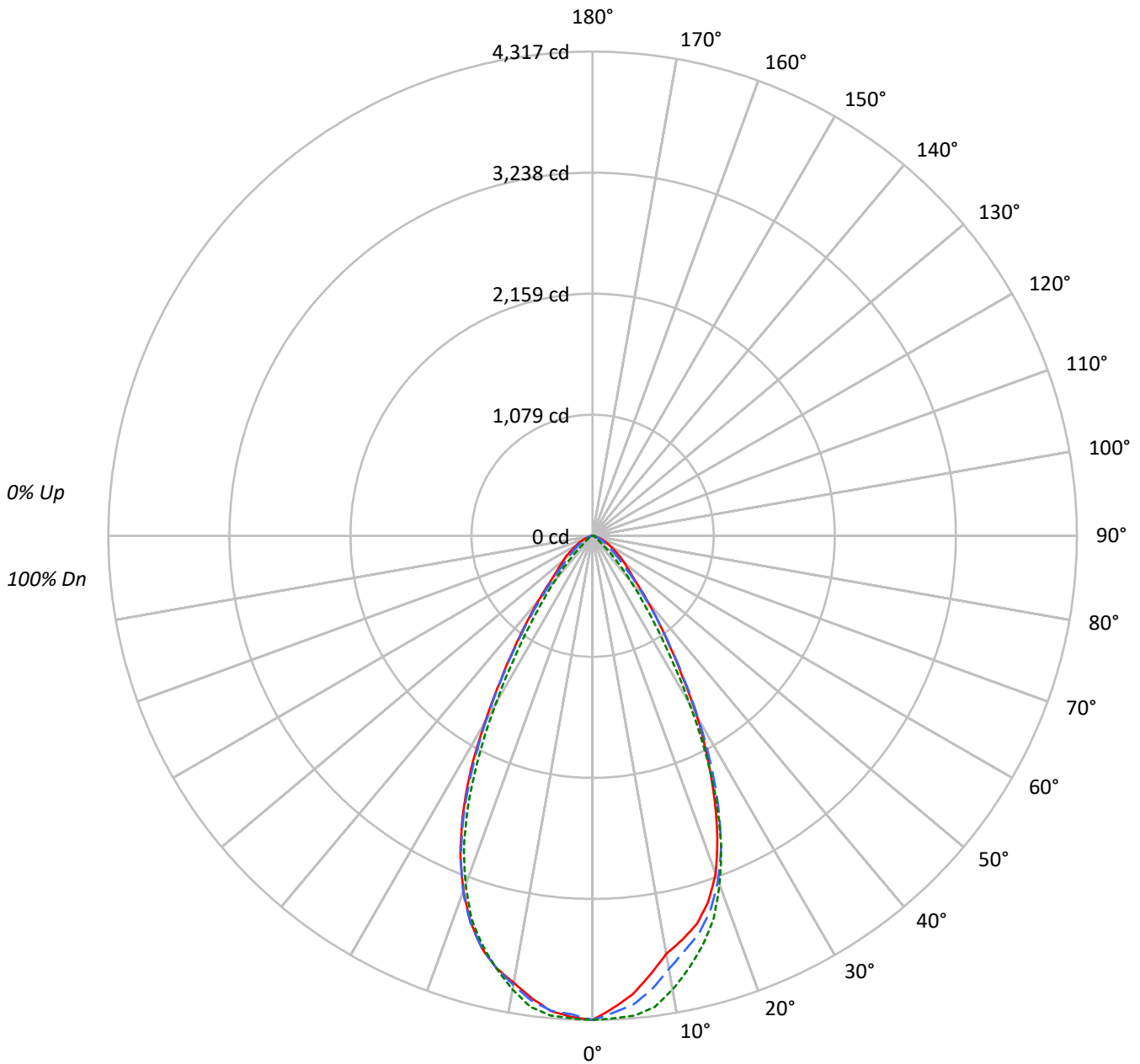
Lumens per Lamp: N/A
Luminaire Lumens: 3930.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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°	530358	530358	530358
5°	506080	529511	524578
10°	472012	512343	504858
15°	455788	481238	484622
20°	419263	432350	440195
25°	347506	353823	370997
30°	264354	244494	271915
35°	178982	146497	180992
40°	121900	83940	118147
45°	84560	42289	79921
50°	68805	17201	64352
55°	55689	10709	50698
60°	44227	8182	40124
65°	34884	6773	31017
70°	26329	5999	23959
75°	18987	4747	17420
80°	14150	4740	11815
85°	9444	4652	9444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.9	10.1
10°-20°	1042.9	26.5
20°-30°	1196.5	30.4
30°-40°	726.9	18.5
40°-50°	311.5	7.9
50°-60°	149.4	3.8
60°-70°	72.7	1.8
70°-80°	27.0	0.7
80°-90°	6.2	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°	2636.3	67.1
0°-40°	3363.2	85.6
0°-60°	3824.2	97.3
0°-90°	3930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4317	4317	4317	4317	4317	
5°	4104	4194	4294	4250	4254	381
15°	3584	3667	3784	3807	3810	998
25°	2564	2647	2610	2710	2737	1163
35°	1193	1210	977	1180	1207	765
45°	487	433	243	390	460	395
55°	260	193	50	173	237	235
65°	120	80	23	73	107	122
75°	40	27	10	23	37	44
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°	4317.0	4317.0	4317.0	4317.0	4317.0	4317.0	4317.0	4317.0	4317.0
2.5°	4213.7	4260.4	4257.0	4297.0	4307.0	4297.0	4270.4	4297.0	4293.7
5°	4103.7	4157.0	4193.7	4260.4	4293.7	4287.0	4250.4	4257.0	4253.7
7.5°	3943.7	4010.4	4073.7	4173.7	4237.0	4233.7	4180.4	4170.4	4157.0
10°	3783.7	3847.0	3920.3	4023.7	4107.0	4120.4	4067.0	4053.7	4047.0
12.5°	3690.3	3740.3	3790.3	3880.3	3953.7	3980.4	3950.3	3953.7	3950.3
15°	3583.6	3633.7	3667.0	3733.7	3783.7	3820.3	3807.0	3827.0	3810.3
17.5°	3423.6	3483.6	3497.0	3547.0	3583.6	3607.0	3620.3	3640.3	3613.7
20°	3206.9	3253.6	3270.3	3290.3	3307.0	3337.0	3377.0	3397.0	3367.0
22.5°	2903.6	2993.6	2990.3	2980.3	2996.9	3006.9	3070.3	3103.6	3080.3
25°	2563.6	2656.9	2646.9	2606.9	2610.2	2630.2	2710.2	2753.6	2736.9
27.5°	2206.9	2293.5	2270.2	2193.5	2173.5	2203.5	2306.9	2356.9	2346.9
30°	1863.5	1920.2	1883.5	1746.8	1723.5	1760.2	1893.5	1943.5	1916.8
32.5°	1493.5	1536.8	1520.1	1353.5	1313.4	1350.1	1506.8	1553.5	1523.5
35°	1193.4	1233.4	1210.1	1013.4	976.8	1016.8	1180.1	1233.4	1206.8
37.5°	956.8	986.8	956.8	746.7	713.4	753.4	910.1	980.1	946.8
40°	760.1	783.4	743.4	550.0	523.4	543.4	690.1	760.1	736.7
42.5°	600.1	616.7	573.4	403.4	373.4	400.0	520.0	583.4	570.1
45°	486.7	486.7	433.4	280.0	243.4	270.0	390.0	456.7	460.0
47.5°	416.7	406.7	340.0	186.7	140.0	176.7	310.0	380.0	390.0
50°	360.0	346.7	280.0	136.7	90.0	126.7	256.7	326.7	336.7
52.5°	310.0	300.0	233.4	106.7	63.3	96.7	216.7	283.4	293.4
55°	260.0	253.4	193.4	83.3	50.0	73.3	173.3	230.0	236.7
57.5°	213.4	203.4	156.7	70.0	40.0	60.0	143.3	190.0	196.7
60°	180.0	170.0	126.7	56.7	33.3	46.7	116.7	156.7	163.3
62.5°	150.0	140.0	103.3	46.7	26.7	40.0	93.3	126.7	133.3
65°	120.0	113.3	80.0	36.7	23.3	30.0	73.3	100.0	106.7
67.5°	96.7	90.0	63.3	30.0	20.0	23.3	56.7	80.0	86.7
70°	73.3	66.7	46.7	23.3	16.7	20.0	43.3	60.0	66.7
72.5°	53.3	50.0	36.7	20.0	13.3	16.7	30.0	43.3	50.0
75°	40.0	36.7	26.7	13.3	10.0	13.3	23.3	33.3	36.7
77.5°	26.7	26.7	20.0	10.0	10.0	10.0	16.7	23.3	23.3
80°	20.0	16.7	13.3	6.7	6.7	6.7	10.0	16.7	16.7
82.5°	13.3	10.0	10.0	6.7	6.7	6.7	6.7	10.0	10.0
85°	6.7	6.7	6.7	3.3	3.3	3.3	3.3	6.7	6.7
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)