

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: P859230

Luminaire Tested: **LD4C60D010 EU4609040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859230
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 EU4609040 4LBMDSWGPH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

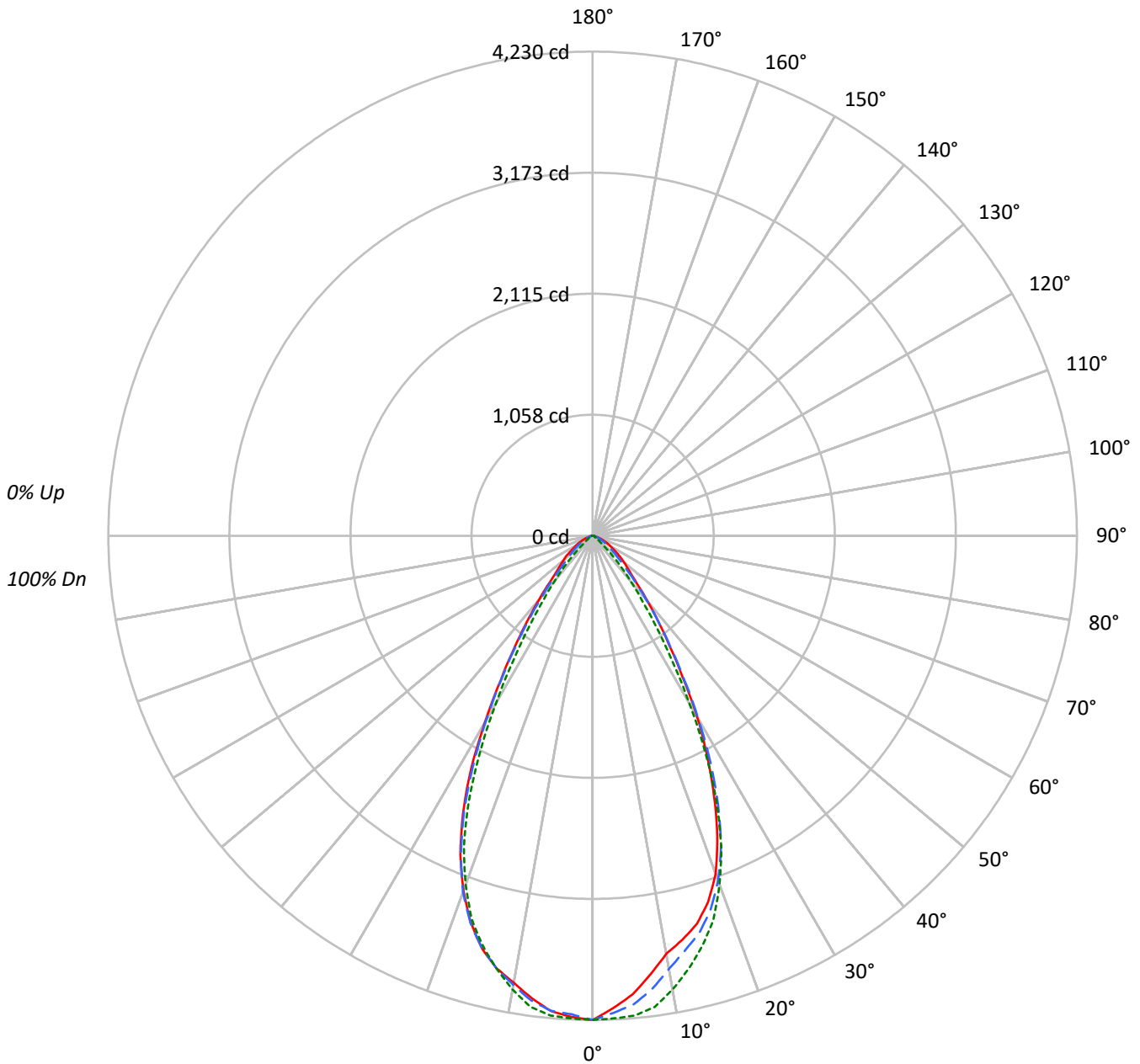
Lumens per Lamp: N/A
Luminaire Lumens: 3851.0 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
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				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°	519707	519707	519707
5°	495905	518868	514034
10°	462518	502051	494716
15°	446631	471560	474879
20°	410844	423656	431344
25°	340511	346720	363542
30°	259034	239571	266454
35°	175382	143542	177347
40°	119446	82256	115774
45°	82857	41437	78322
50°	67429	16857	63052
55°	54575	10495	49670
60°	43343	8035	39338
65°	34186	6657	30378
70°	25826	5855	23456
75°	18607	4652	17041
80°	13867	4599	11532
85°	9162	4652	9162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	10.1
10°-20°	1021.9	26.5
20°-30°	1172.5	30.4
30°-40°	712.3	18.5
40°-50°	305.3	7.9
50°-60°	146.4	3.8
60°-70°	71.2	1.8
70°-80°	26.4	0.7
80°-90°	6.1	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°	2583.3	67.1
0°-40°	3295.6	85.6
0°-60°	3747.3	97.3
0°-90°	3851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3851.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4230	4230	4230	4230	4230	
5°	4021	4109	4207	4165	4168	374
15°	3512	3593	3708	3730	3734	978
25°	2512	2594	2558	2656	2682	1140
35°	1169	1186	957	1156	1182	749
45°	477	425	238	382	451	387
55°	255	190	49	170	232	230
65°	118	78	23	72	104	119
75°	39	26	10	23	36	43
85°	6	6	3	3	6	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°	4230.3	4230.3	4230.3	4230.3	4230.3	4230.3	4230.3	4230.3	4230.3
2.5°	4129.0	4174.7	4171.5	4210.7	4220.5	4210.7	4184.5	4210.7	4207.4
5°	4021.2	4073.5	4109.4	4174.7	4207.4	4200.9	4164.9	4171.5	4168.2
7.5°	3864.4	3929.7	3991.8	4089.8	4151.9	4148.6	4096.3	4086.5	4073.5
10°	3707.6	3769.7	3841.5	3942.8	4024.5	4037.5	3985.3	3972.2	3965.7
12.5°	3616.1	3665.1	3714.1	3802.3	3874.2	3900.3	3870.9	3874.2	3870.9
15°	3511.6	3560.6	3593.3	3658.6	3707.6	3743.5	3730.5	3750.1	3733.7
17.5°	3354.8	3413.6	3426.7	3475.7	3511.6	3534.5	3547.5	3567.1	3541.0
20°	3142.5	3188.2	3204.6	3224.1	3240.5	3269.9	3309.1	3328.7	3299.3
22.5°	2845.2	2933.4	2930.2	2920.4	2936.7	2946.5	3008.6	3041.2	3018.4
25°	2512.0	2603.5	2593.7	2554.5	2557.8	2577.4	2655.8	2698.2	2681.9
27.5°	2162.5	2247.4	2224.6	2149.4	2129.8	2159.2	2260.5	2309.5	2299.7
30°	1826.0	1881.6	1845.6	1711.7	1688.8	1724.8	1855.4	1904.4	1878.3
32.5°	1463.4	1505.9	1489.6	1326.2	1287.0	1323.0	1476.5	1522.2	1492.8
35°	1169.4	1208.6	1185.8	993.1	957.1	996.3	1156.4	1208.6	1182.5
37.5°	937.5	966.9	937.5	731.7	699.1	738.3	891.8	960.4	927.7
40°	744.8	767.7	728.5	539.0	512.9	532.5	676.2	744.8	721.9
42.5°	588.0	604.3	561.9	395.3	365.9	392.0	509.6	571.7	558.6
45°	476.9	476.9	424.7	274.4	238.5	264.6	382.2	447.5	450.8
47.5°	408.3	398.5	333.2	182.9	137.2	173.1	303.8	372.4	382.2
50°	352.8	339.7	274.4	133.9	88.2	124.1	251.5	320.1	329.9
52.5°	303.8	294.0	228.7	104.5	62.1	94.7	212.3	277.7	287.5
55°	254.8	248.3	189.5	81.7	49.0	71.9	169.9	225.4	231.9
57.5°	209.1	199.3	153.5	68.6	39.2	58.8	140.5	186.2	192.7
60°	176.4	166.6	124.1	55.5	32.7	45.7	114.3	153.5	160.1
62.5°	147.0	137.2	101.3	45.7	26.1	39.2	91.5	124.1	130.7
65°	117.6	111.1	78.4	35.9	22.9	29.4	71.9	98.0	104.5
67.5°	94.7	88.2	62.1	29.4	19.6	22.9	55.5	78.4	84.9
70°	71.9	65.3	45.7	22.9	16.3	19.6	42.5	58.8	65.3
72.5°	52.3	49.0	35.9	19.6	13.1	16.3	29.4	42.5	49.0
75°	39.2	35.9	26.1	13.1	9.8	13.1	22.9	32.7	35.9
77.5°	26.1	26.1	19.6	9.8	9.8	9.8	16.3	22.9	22.9
80°	19.6	16.3	13.1	6.5	6.5	6.5	9.8	16.3	16.3
82.5°	13.1	9.8	9.8	6.5	6.5	6.5	6.5	9.8	9.8
85°	6.5	6.5	6.5	3.3	3.3	3.3	3.3	6.5	6.5
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)