

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: P799727

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDDWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C45D010 EU6459030 6LBMDDWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

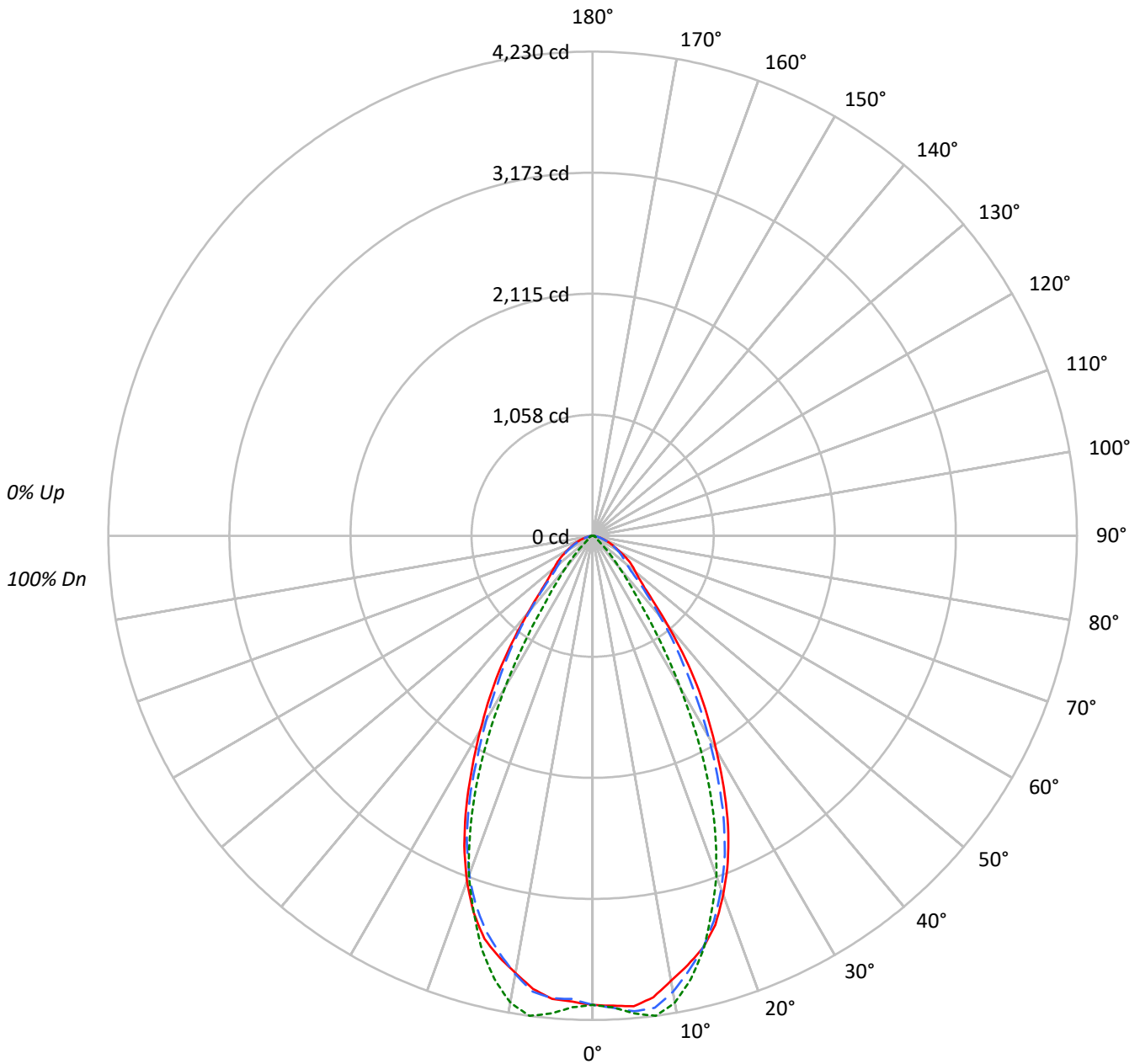
Lumens per Lamp: N/A
Luminaire Lumens: 4173.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	224708	224708	224708
5°	227058	230497	223503
10°	219702	230496	215872
15°	211454	212283	206959
20°	194611	184396	187313
25°	169371	145406	157769
30°	136597	96610	123930
35°	105906	49811	93070
40°	72665	25813	62667
45°	49788	12932	43966
50°	41431	5509	37696
55°	37265	4779	33681
60°	29493	4572	28112
65°	24335	4060	24075
70°	19715	3670	19715
75°	14572	3982	15462
80°	8555	3283	9218
85°	6542	3963	6542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.2	9.4
10°-20°	1024.1	24.5
20°-30°	1168.9	28.0
30°-40°	775.2	18.6
40°-50°	373.9	9.0
50°-60°	230.0	5.5
60°-70°	139.2	3.3
70°-80°	58.6	1.4
80°-90°	12.9	0.3
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°	2583.2	61.9
0°-40°	3358.4	80.5
0°-60°	3962.4	95.0
0°-90°	4173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4173.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4099	4099	4099	4099	4099	
5°	4126	4170	4189	4055	4062	388
15°	3726	3726	3740	3582	3647	1038
25°	2800	2706	2404	2544	2608	1270
35°	1582	1395	744	1301	1391	979
45°	642	563	167	525	567	524
55°	390	317	50	317	352	343
65°	188	179	31	169	186	188
75°	69	69	19	65	73	73
85°	10	15	6	10	10	13
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°	4099.0	4099.0	4099.0	4099.0	4099.0	4099.0	4099.0	4099.0	4099.0
2.5°	4109.4	4115.7	4128.2	4130.3	4124.0	4084.4	4051.0	4063.5	4074.0
5°	4126.1	4138.6	4169.9	4199.1	4188.6	4121.9	4055.2	4053.1	4061.5
7.5°	4065.6	4094.8	4159.5	4232.4	4230.3	4115.7	4017.7	3992.7	3992.7
10°	3946.8	3973.9	4044.8	4142.8	4140.7	3996.8	3888.4	3875.9	3878.0
12.5°	3840.5	3853.0	3888.4	3965.6	3965.6	3823.8	3740.4	3752.9	3769.6
15°	3725.8	3734.1	3725.8	3750.8	3740.4	3623.6	3581.9	3621.5	3646.6
17.5°	3563.2	3567.3	3523.5	3490.2	3450.6	3377.6	3388.0	3446.4	3452.7
20°	3335.9	3363.0	3283.8	3198.3	3160.8	3092.0	3150.3	3215.0	3210.8
22.5°	3085.7	3117.0	3014.8	2873.0	2795.9	2768.8	2873.0	2931.4	2929.3
25°	2800.1	2823.0	2706.2	2508.2	2403.9	2399.8	2543.6	2604.1	2608.3
27.5°	2479.0	2487.3	2356.0	2097.4	1968.2	1999.5	2180.8	2264.2	2274.7
30°	2157.9	2153.7	2018.2	1697.1	1526.2	1611.7	1855.6	1947.3	1957.8
32.5°	1863.9	1851.4	1697.1	1313.5	1109.2	1236.4	1557.4	1653.4	1670.0
35°	1582.5	1561.6	1394.8	971.6	744.3	934.1	1301.0	1384.4	1390.7
37.5°	1288.5	1278.1	1146.7	727.6	519.1	708.9	1061.2	1121.7	1115.4
40°	1015.4	1015.4	906.9	540.0	360.7	527.5	840.2	894.4	875.7
42.5°	796.4	806.9	715.1	398.2	256.4	392.0	665.1	715.1	694.3
45°	642.2	642.2	562.9	296.1	166.8	291.9	525.4	571.3	567.1
47.5°	544.2	535.8	456.6	216.8	91.7	218.9	442.0	498.3	496.2
50°	485.8	473.3	392.0	171.0	64.6	181.4	387.8	439.9	442.0
52.5°	439.9	421.2	352.4	152.2	56.3	158.5	352.4	394.1	394.1
55°	389.9	379.5	316.9	135.5	50.0	141.8	316.9	354.4	352.4
57.5°	329.4	327.3	283.6	123.0	45.9	125.1	283.6	306.5	298.1
60°	269.0	277.3	246.0	110.5	41.7	112.6	241.9	260.6	256.4
62.5°	225.2	235.6	214.7	98.0	35.4	100.1	204.3	223.1	218.9
65°	187.6	196.0	179.3	83.4	31.3	83.4	168.9	185.6	185.6
67.5°	154.3	160.5	148.0	68.8	27.1	68.8	137.6	152.2	154.3
70°	123.0	127.2	116.8	54.2	22.9	56.3	108.4	123.0	123.0
72.5°	95.9	98.0	91.7	43.8	20.8	43.8	83.4	95.9	95.9
75°	68.8	73.0	68.8	33.4	18.8	33.4	64.6	70.9	73.0
77.5°	39.6	50.0	50.0	27.1	14.6	25.0	45.9	48.0	48.0
80°	27.1	31.3	35.4	18.8	10.4	18.8	29.2	31.3	29.2
82.5°	18.8	20.8	20.8	12.5	8.3	12.5	18.8	20.8	18.8
85°	10.4	14.6	14.6	10.4	6.3	8.3	10.4	12.5	10.4
87.5°	6.3	8.3	10.4	8.3	6.3	6.3	6.3	6.3	4.2
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)