

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: P799829

Luminaire Tested: **LD6C50D010 EU6509050 6LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C50D010 EU6509050 6LBMDSWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

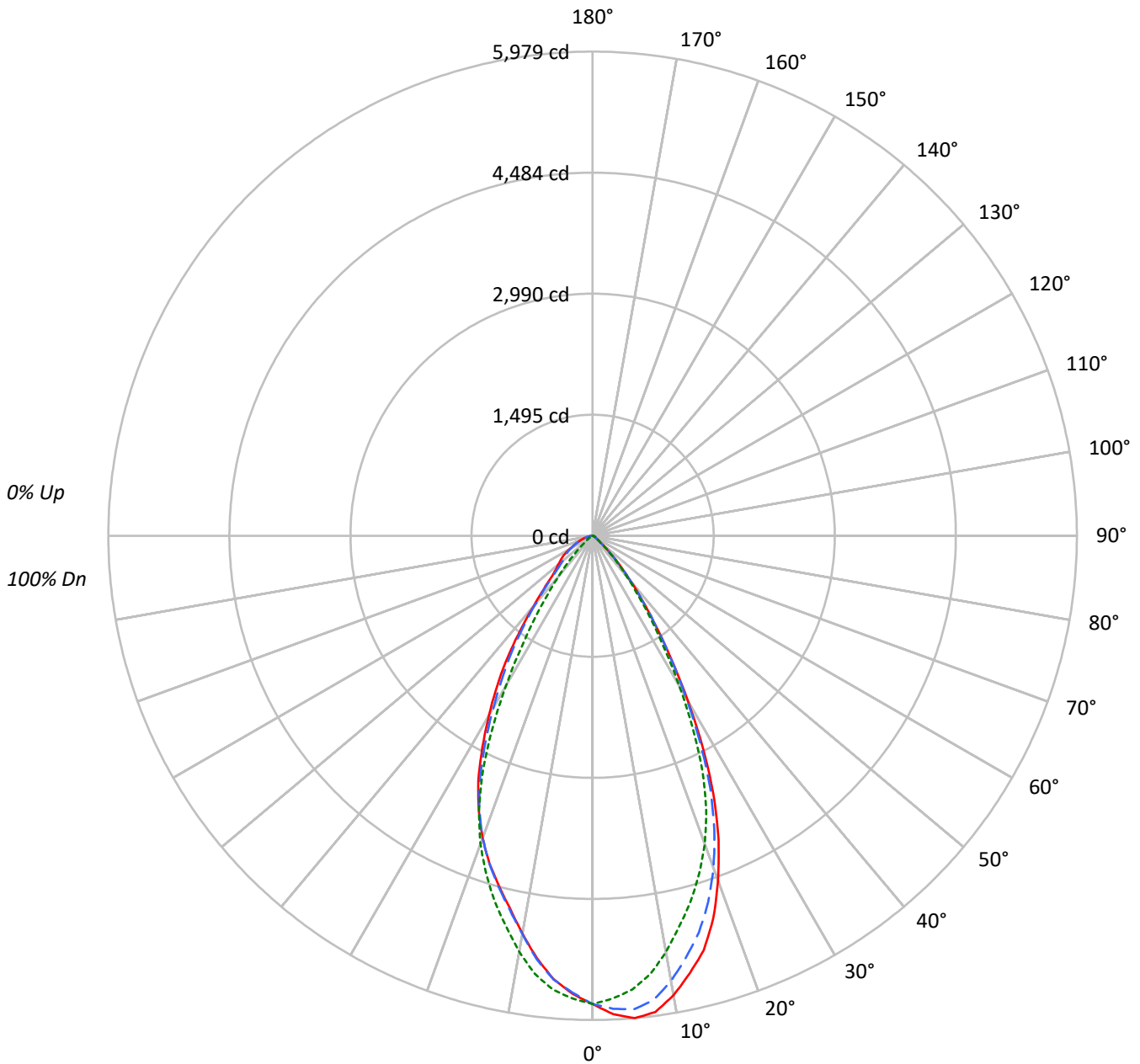
Lumens per Lamp: N/A
Luminaire Lumens: 4978.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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

TEST NUMBER: P799829

CATALOG NUMBER: LD6C50D010 EU6509050 6LBMDSWMW

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	110	108	105	103	104	102	100	100	98	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	87	81	77	84	80	76	82	78	75	80	77	74	73				73				
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67				
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63				63				
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59				59				
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55				55				
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52				52				
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49				49				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	316965	316965	316965
5°	329016	309525	302525
10°	320602	290336	277561
15°	300683	265291	253827
20°	263964	236171	231662
25°	213490	194025	202022
30°	148422	135160	161683
35°	91477	82797	122028
40°	51768	46408	81038
45°	25142	23979	55308
50°	9569	9569	47009
55°	5247	6203	43392
60°	3826	4923	35556
65°	3230	4203	29121
70°	2805	3590	23994
75°	2648	3707	20609
80°	1578	3157	14964
85°	1572	6290	14089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	10.6
10°-20°	1330.4	26.7
20°-30°	1497.6	30.1
30°-40°	927.3	18.6
40°-50°	369.3	7.4
50°-60°	168.1	3.4
60°-70°	96.6	1.9
70°-80°	45.9	0.9
80°-90°	13.4	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°	3357.3	67.4
0°-40°	4284.6	86.1
0°-60°	4822.1	96.9
0°-90°	4978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4978.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5782	5782	5782	5782	5782	
5°	5979	5869	5625	5502	5498	563
15°	5298	5068	4674	4485	4472	1466
25°	3530	3435	3208	3288	3340	1587
35°	1367	1359	1237	1724	1823	878
45°	324	324	309	674	713	275
55°	55	52	65	399	454	54
65°	25	22	32	222	224	24
75°	12	12	18	95	97	13
85°	2	2	10	22	22	2
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°	5781.9	5781.9	5781.9	5781.9	5781.9	5781.9	5781.9	5781.9	5781.9
2.5°	5914.1	5859.2	5846.7	5799.3	5719.5	5674.6	5647.2	5627.2	5662.2
5°	5978.9	5919.1	5869.2	5771.9	5624.7	5542.4	5502.5	5470.1	5497.5
7.5°	5931.5	5846.7	5779.4	5644.7	5457.6	5330.4	5275.5	5238.1	5263.1
10°	5759.4	5657.2	5579.8	5420.2	5215.7	5063.5	4996.2	4961.2	4986.2
12.5°	5534.9	5450.1	5332.9	5158.3	4938.8	4779.2	4729.3	4701.8	4711.8
15°	5298.0	5198.2	5068.5	4893.9	4674.4	4514.8	4484.8	4467.4	4472.4
17.5°	4953.8	4856.5	4744.2	4574.6	4372.6	4242.9	4242.9	4230.4	4237.9
20°	4524.7	4472.4	4362.6	4220.4	4048.3	3931.1	3968.5	3956.0	3971.0
22.5°	4060.8	4020.9	3926.1	3808.9	3664.2	3571.9	3654.2	3651.7	3671.7
25°	3529.5	3499.6	3434.7	3334.9	3207.7	3150.4	3287.5	3287.5	3339.9
27.5°	2943.3	2913.4	2868.5	2783.7	2678.9	2661.5	2863.5	2888.4	2945.8
30°	2344.7	2324.7	2299.8	2222.5	2135.2	2167.6	2446.9	2489.4	2554.2
32.5°	1810.9	1798.4	1790.9	1721.1	1643.8	1751.0	2070.3	2125.2	2190.0
35°	1366.9	1339.5	1359.4	1307.0	1237.2	1371.9	1723.6	1771.0	1823.4
37.5°	1007.7	987.8	1005.2	967.8	905.4	1052.6	1384.4	1414.3	1449.2
40°	723.4	705.9	720.9	698.4	648.5	785.7	1085.0	1117.5	1132.4
42.5°	513.8	483.9	498.9	481.4	456.5	591.2	853.1	883.0	888.0
45°	324.3	314.3	324.3	314.3	309.3	439.0	673.5	700.9	713.4
47.5°	197.1	184.6	184.6	179.6	184.6	324.3	556.2	596.1	616.1
50°	112.2	107.3	104.8	102.3	112.2	254.4	481.4	526.3	551.2
52.5°	74.8	72.3	72.3	69.8	82.3	214.5	434.0	473.9	498.9
55°	54.9	52.4	52.4	52.4	64.9	184.6	399.1	431.5	454.0
57.5°	42.4	42.4	42.4	39.9	54.9	157.1	356.7	374.2	391.6
60°	34.9	32.4	32.4	32.4	44.9	134.7	306.8	314.3	324.3
62.5°	27.4	27.4	27.4	27.4	37.4	119.7	264.4	264.4	269.4
65°	24.9	22.4	22.4	22.4	32.4	104.8	222.0	219.5	224.5
67.5°	20.0	20.0	20.0	20.0	27.4	89.8	182.1	179.6	184.6
70°	17.5	17.5	17.5	17.5	22.4	74.8	147.2	144.7	149.7
72.5°	15.0	15.0	15.0	15.0	20.0	62.4	117.2	117.2	119.7
75°	12.5	12.5	12.5	12.5	17.5	47.4	94.8	94.8	97.3
77.5°	10.0	10.0	10.0	10.0	12.5	37.4	72.3	69.8	69.8
80°	5.0	7.5	7.5	7.5	10.0	27.4	52.4	47.4	47.4
82.5°	2.5	5.0	5.0	5.0	10.0	20.0	34.9	32.4	32.4
85°	2.5	2.5	2.5	7.5	10.0	15.0	22.4	22.4	22.4
87.5°	0.0	2.5	5.0	10.0	12.5	12.5	15.0	12.5	12.5
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)