

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: P799787

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDDWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799787
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: LD6C50D010 EU6509030 6LBMDDWMW
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

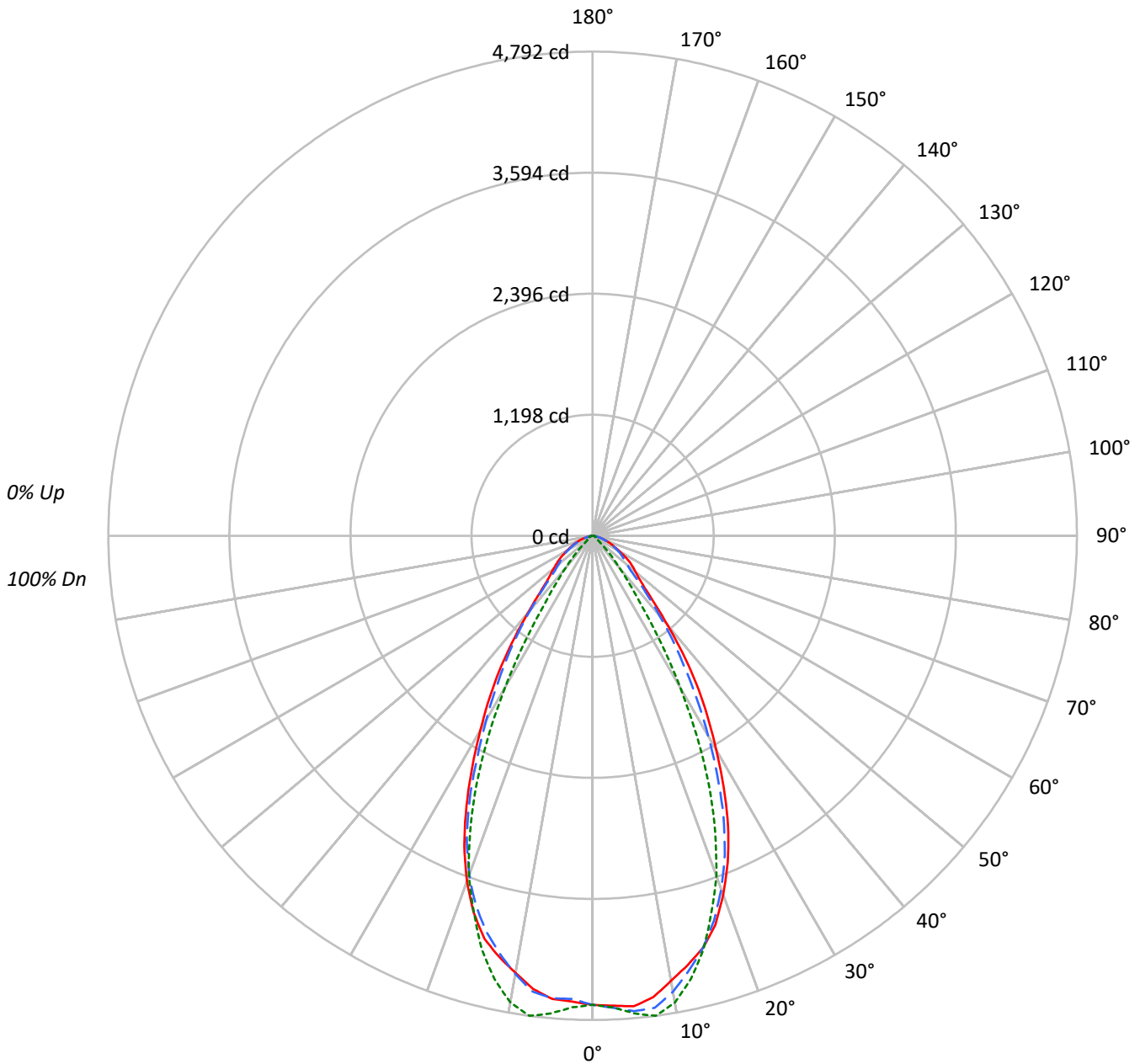
Lumens per Lamp: N/A
Luminaire Lumens: 4727.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	254541	254541	254541
5°	257203	261099	253175
10°	248871	261095	244529
15°	239525	240461	234434
20°	220449	208875	212183
25°	191854	164713	178710
30°	154733	109435	140382
35°	119966	56423	105424
40°	82311	29240	70983
45°	56393	14645	49804
50°	46932	6243	42702
55°	42206	5419	38144
60°	33407	5175	31851
65°	27578	4592	27266
70°	22327	4167	22327
75°	16500	4512	17517
80°	9692	3725	10450
85°	7422	4466	7422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.0	9.4
10°-20°	1160.1	24.5
20°-30°	1324.1	28.0
30°-40°	878.1	18.6
40°-50°	423.5	9.0
50°-60°	260.5	5.5
60°-70°	157.7	3.3
70°-80°	66.3	1.4
80°-90°	14.6	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°	2926.2	61.9
0°-40°	3804.3	80.5
0°-60°	4488.4	95.0
0°-90°	4727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4727.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4643	4643	4643	4643	4643	
5°	4674	4724	4745	4594	4601	439
15°	4220	4220	4237	4058	4131	1176
25°	3172	3066	2723	2881	2954	1438
35°	1793	1580	843	1474	1575	1109
45°	727	638	189	595	642	593
55°	442	359	57	359	399	388
65°	213	203	35	191	210	213
75°	78	78	21	73	83	83
85°	12	16	7	12	12	15
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°	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2
2.5°	4655.0	4662.1	4676.2	4678.6	4671.5	4626.6	4588.8	4603.0	4614.8
5°	4673.9	4688.0	4723.5	4756.5	4744.7	4669.1	4593.6	4591.2	4600.7
7.5°	4605.4	4638.4	4711.7	4794.3	4792.0	4662.1	4551.1	4522.7	4522.7
10°	4470.8	4501.5	4581.8	4692.8	4690.4	4527.4	4404.6	4390.5	4392.8
12.5°	4350.3	4364.5	4404.6	4492.0	4492.0	4331.4	4236.9	4251.1	4270.0
15°	4220.4	4229.9	4220.4	4248.8	4236.9	4104.7	4057.5	4102.3	4130.7
17.5°	4036.2	4040.9	3991.3	3953.5	3908.7	3826.0	3837.8	3903.9	3911.0
20°	3778.8	3809.5	3719.7	3622.9	3580.4	3502.4	3568.6	3641.8	3637.1
22.5°	3495.4	3530.8	3415.1	3254.5	3167.1	3136.4	3254.5	3320.6	3318.2
25°	3171.8	3197.8	3065.5	2841.2	2723.1	2718.4	2881.3	2949.8	2954.5
27.5°	2808.1	2817.5	2668.8	2375.9	2229.5	2264.9	2470.4	2564.8	2576.6
30°	2444.4	2439.7	2286.2	1922.4	1728.8	1825.6	2101.9	2205.9	2217.7
32.5°	2111.4	2097.2	1922.4	1487.9	1256.4	1400.5	1764.2	1872.9	1891.7
35°	1792.6	1768.9	1580.0	1100.6	843.1	1058.1	1473.7	1568.2	1575.3
37.5°	1459.5	1447.7	1299.0	824.2	588.1	803.0	1202.1	1270.6	1263.5
40°	1150.2	1150.2	1027.4	611.7	408.6	597.5	951.8	1013.2	991.9
42.5°	902.2	914.0	810.1	451.1	290.5	444.0	753.4	810.1	786.5
45°	727.4	727.4	637.7	335.4	188.9	330.6	595.2	647.1	642.4
47.5°	616.4	607.0	517.2	245.6	103.9	248.0	500.7	564.5	562.1
50°	550.3	536.1	444.0	193.7	73.2	205.5	439.3	498.3	500.7
52.5°	498.3	477.1	399.1	172.4	63.8	179.5	399.1	446.4	446.4
55°	441.6	429.8	359.0	153.5	56.7	160.6	359.0	401.5	399.1
57.5°	373.2	370.8	321.2	139.3	52.0	141.7	321.2	347.2	337.7
60°	304.7	314.1	278.7	125.2	47.2	127.5	274.0	295.2	290.5
62.5°	255.1	266.9	243.3	111.0	40.1	113.4	231.4	252.7	248.0
65°	212.6	222.0	203.1	94.5	35.4	94.5	191.3	210.2	210.2
67.5°	174.8	181.9	167.7	77.9	30.7	77.9	155.9	172.4	174.8
70°	139.3	144.1	132.3	61.4	26.0	63.8	122.8	139.3	139.3
72.5°	108.6	111.0	103.9	49.6	23.6	49.6	94.5	108.6	108.6
75°	77.9	82.7	77.9	37.8	21.3	37.8	73.2	80.3	82.7
77.5°	44.9	56.7	56.7	30.7	16.5	28.3	52.0	54.3	54.3
80°	30.7	35.4	40.1	21.3	11.8	21.3	33.1	35.4	33.1
82.5°	21.3	23.6	23.6	14.2	9.4	14.2	21.3	23.6	21.3
85°	11.8	16.5	16.5	11.8	7.1	9.4	11.8	14.2	11.8
87.5°	7.1	9.4	11.8	9.4	7.1	7.1	7.1	7.1	4.7
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)