

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: P799786

Luminaire Tested: **LD6C50D010 EU6509030 6LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799786
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 6LBMDDWLI
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

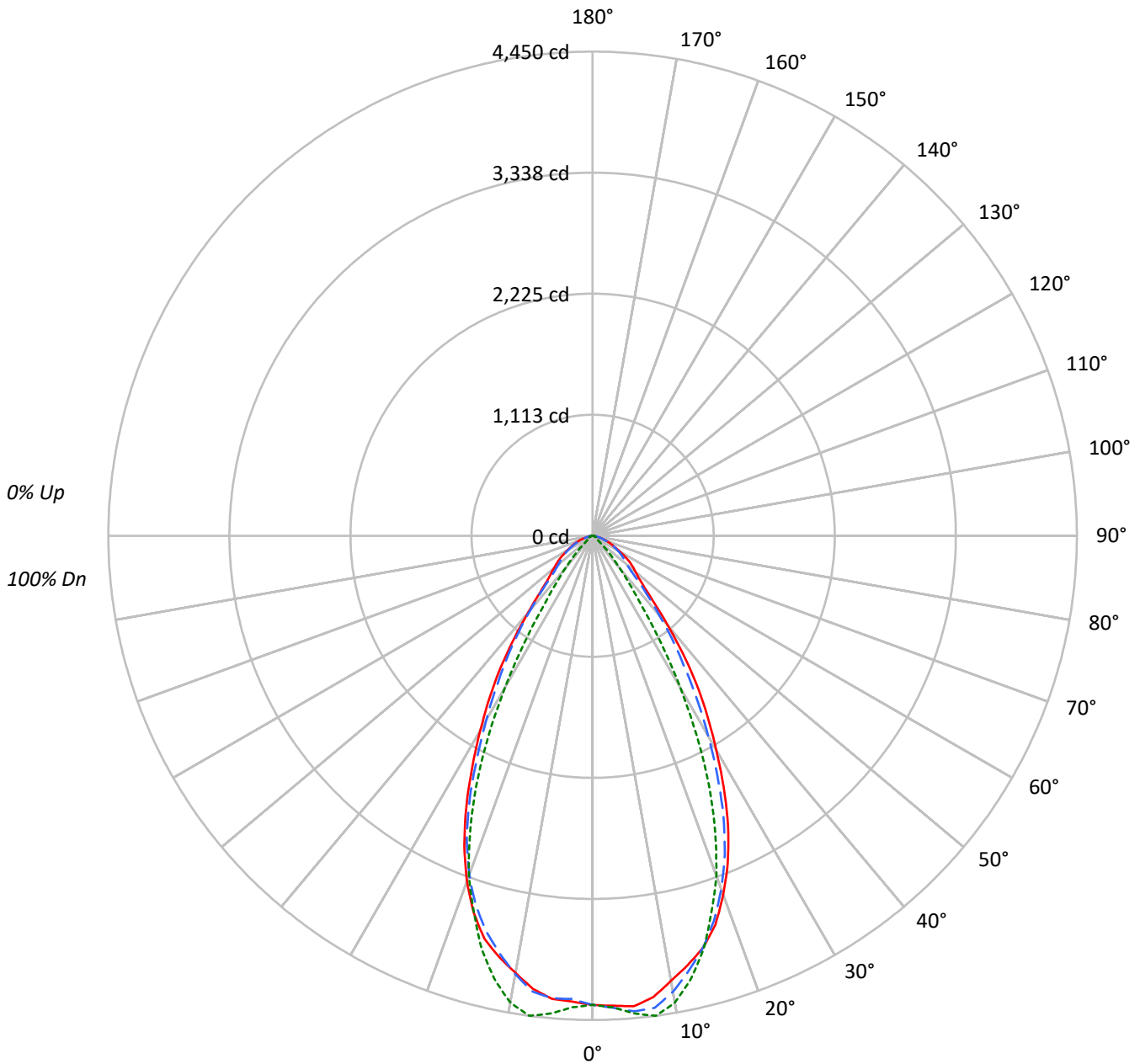
Lumens per Lamp: N/A
Luminaire Lumens: 4390.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (Ain): 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					
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								
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°	236390	236390	236390
5°	238867	242488	235125
10°	231125	242480	227094
15°	222447	223321	217720
20°	204733	193981	197055
25°	178178	152966	165971
30°	143699	101630	130374
35°	111414	52401	97908
40°	76443	27158	65924
45°	52378	13606	46253
50°	43589	5799	39658
55°	39205	5027	35430
60°	31017	4813	29581
65°	25606	4268	25320
70°	20741	3863	20741
75°	15335	4173	16267
80°	8997	3473	9692
85°	6919	4151	6919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.5	9.4
10°-20°	1077.4	24.5
20°-30°	1229.7	28.0
30°-40°	815.5	18.6
40°-50°	393.3	9.0
50°-60°	242.0	5.5
60°-70°	146.4	3.3
70°-80°	61.6	1.4
80°-90°	13.6	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°	2717.6	61.9
0°-40°	3533.1	80.5
0°-60°	4168.4	95.0
0°-90°	4390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4312	4312	4312	4312	4312	
5°	4341	4387	4406	4266	4273	408
15°	3920	3920	3935	3768	3836	1092
25°	2946	2847	2529	2676	2744	1336
35°	1665	1467	783	1369	1463	1030
45°	676	592	176	553	597	551
55°	410	333	53	333	371	361
65°	197	189	33	178	195	198
75°	72	72	20	68	77	77
85°	11	15	7	11	11	14
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°	4312.1	4312.1	4312.1	4312.1	4312.1	4312.1	4312.1	4312.1	4312.1
2.5°	4323.1	4329.7	4342.8	4345.0	4338.5	4296.8	4261.7	4274.9	4285.8
5°	4340.7	4353.8	4386.7	4417.4	4406.5	4336.3	4266.1	4263.9	4272.7
7.5°	4277.0	4307.8	4375.7	4452.5	4450.3	4329.7	4226.6	4200.3	4200.3
10°	4152.0	4180.5	4255.1	4358.2	4356.0	4204.7	4090.6	4077.4	4079.6
12.5°	4040.2	4053.3	4090.6	4171.8	4171.8	4022.6	3934.9	3948.0	3965.6
15°	3919.5	3928.3	3919.5	3945.8	3934.9	3812.1	3768.2	3809.9	3836.2
17.5°	3748.4	3752.8	3706.8	3671.7	3630.0	3553.2	3564.2	3625.6	3632.2
20°	3509.4	3537.9	3454.5	3364.6	3325.1	3252.7	3314.2	3382.2	3377.8
22.5°	3246.2	3279.1	3171.6	3022.4	2941.3	2912.8	3022.4	3083.9	3081.7
25°	2945.7	2969.8	2847.0	2638.6	2528.9	2524.6	2675.9	2739.5	2743.9
27.5°	2607.9	2616.7	2478.5	2206.5	2070.5	2103.4	2294.3	2382.0	2393.0
30°	2270.1	2265.7	2123.2	1785.4	1605.5	1695.5	1952.1	2048.6	2059.6
32.5°	1960.9	1947.7	1785.4	1381.8	1166.9	1300.7	1638.4	1739.3	1756.9
35°	1664.8	1642.8	1467.4	1022.1	783.0	982.6	1368.7	1456.4	1463.0
37.5°	1355.5	1344.5	1206.3	765.5	546.1	745.7	1116.4	1180.0	1173.4
40°	1068.2	1068.2	954.1	568.1	379.5	554.9	883.9	940.9	921.2
42.5°	837.9	848.8	752.3	418.9	269.8	412.4	699.7	752.3	730.4
45°	675.6	675.6	592.2	311.5	175.5	307.1	552.7	601.0	596.6
47.5°	572.5	563.7	480.3	228.1	96.5	230.3	465.0	524.2	522.0
50°	511.1	497.9	412.4	179.9	68.0	190.8	408.0	462.8	465.0
52.5°	462.8	443.1	370.7	160.1	59.2	166.7	370.7	414.5	414.5
55°	410.2	399.2	333.4	142.6	52.6	149.1	333.4	372.9	370.7
57.5°	346.6	344.4	298.3	129.4	48.3	131.6	298.3	322.4	313.6
60°	282.9	291.7	258.8	116.2	43.9	118.4	254.4	274.2	269.8
62.5°	236.9	247.8	225.9	103.1	37.3	105.3	214.9	234.7	230.3
65°	197.4	206.2	188.6	87.7	32.9	87.7	177.7	195.2	195.2
67.5°	162.3	168.9	155.7	72.4	28.5	72.4	144.8	160.1	162.3
70°	129.4	133.8	122.8	57.0	24.1	59.2	114.1	129.4	129.4
72.5°	100.9	103.1	96.5	46.1	21.9	46.1	87.7	100.9	100.9
75°	72.4	76.8	72.4	35.1	19.7	35.1	68.0	74.6	76.8
77.5°	41.7	52.6	52.6	28.5	15.4	26.3	48.3	50.4	50.4
80°	28.5	32.9	37.3	19.7	11.0	19.7	30.7	32.9	30.7
82.5°	19.7	21.9	21.9	13.2	8.8	13.2	19.7	21.9	19.7
85°	11.0	15.4	15.4	11.0	6.6	8.8	11.0	13.2	11.0
87.5°	6.6	8.8	11.0	8.8	6.6	6.6	6.6	6.6	4.4
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)