

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: P844518

Luminaire Tested: **LD6C40DE010B50 EU6C40B50 6LBSQLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40DE010B50 EU6C40B50 6LBSQLI
Description:
Light Source: -
Ballast/Driver:

Summary

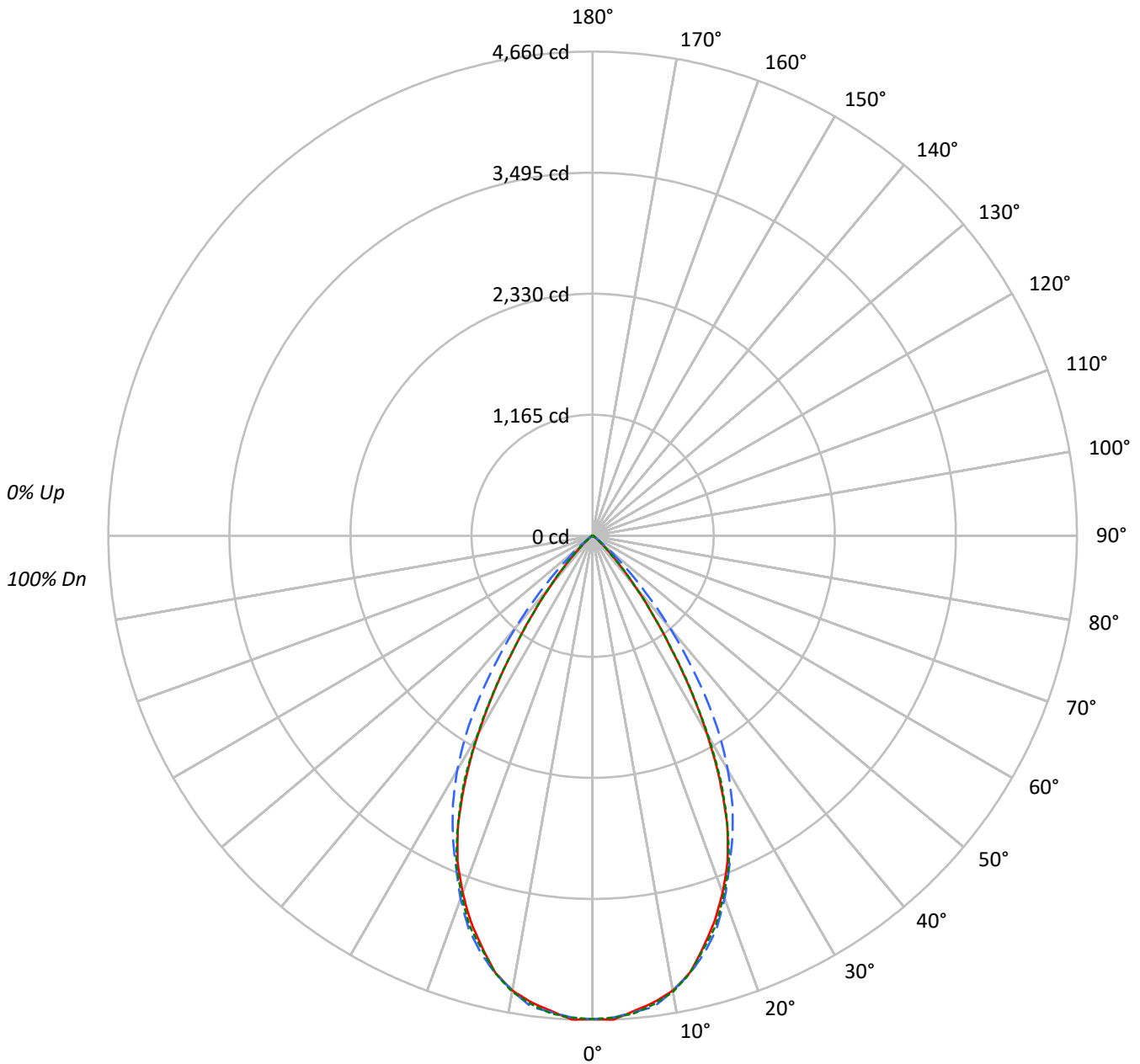
Lumens per Lamp: N/A
Luminaire Lumens: 4371.3 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.8
Input Voltage (V):
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

TEST NUMBER: P844518

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P844518

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBSQLI

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53																			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	200278	200278	200278
5°	198385	198890	199396
10°	194265	194265	194785
15°	182907	185261	183558
20°	167468	170158	168678
25°	145513	151218	145651
30°	109431	129402	110460
35°	67941	99677	68251
40°	35752	64906	35589
45°	14815	32479	15168
50°	5694	12171	5694
55°	3078	3738	2867
60°	2032	1757	2032
65°	1182	1182	1182
70°	730	1108	730
75°	499	499	499
80°	744	744	744
85°	0	0	0



TEST NUMBER: P844518

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.5	10.0
10°-20°	1158.4	26.5
20°-30°	1421.7	32.5
30°-40°	981.4	22.5
40°-50°	306.9	7.0
50°-60°	48.0	1.1
60°-70°	13.8	0.3
70°-80°	4.6	0.1
80°-90°	1.0	0.0
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°	3015.6	69.0
0°-40°	3997.0	91.4
0°-60°	4351.8	99.6
0°-90°	4371.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4371.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4652	4652	4652	4652	4652	
5°	4590	4608	4602	4603	4614	434
15°	4103	4162	4156	4150	4118	1148
25°	3063	3142	3183	3163	3066	1372
35°	1293	1529	1896	1543	1298	826
45°	243	333	533	330	249	218
55°	41	44	50	44	38	40
65°	12	15	12	15	12	13
75°	3	3	3	3	3	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P844518

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6
2.5°	4660.4	4595.9	4637.0	4628.1	4651.6	4666.2	4651.6	4677.9	4660.4	4639.9	4645.8
5°	4590.1	4598.9	4595.9	4601.8	4607.6	4607.6	4637.0	4639.9	4645.8	4601.8	4613.5
7.5°	4528.5	4528.5	4543.2	4537.1	4557.8	4551.9	4554.9	4578.3	4581.1	4569.5	4560.7
10°	4443.4	4431.7	4417.1	4417.1	4443.4	4446.3	4469.9	4472.7	4490.3	4443.4	4449.5
12.5°	4311.7	4305.6	4282.3	4294.0	4314.6	4302.7	4340.8	4343.8	4337.9	4317.5	4329.2
15°	4103.4	4127.0	4121.0	4118.0	4165.0	4159.1	4156.2	4165.0	4167.8	4156.2	4147.4
17.5°	3895.5	3915.9	3918.7	3924.7	3933.3	3942.3	3954.0	3986.3	3974.5	3965.7	3995.1
20°	3655.0	3646.2	3669.7	3693.0	3701.8	3701.8	3719.5	3742.9	3725.4	3713.7	3716.6
22.5°	3394.2	3408.8	3397.1	3420.5	3432.3	3446.9	3464.4	3485.0	3470.3	3438.2	3476.3
25°	3063.0	3071.8	3109.9	3107.0	3124.5	3159.7	3186.0	3186.0	3186.0	3183.1	3183.1
27.5°	2646.7	2640.9	2687.9	2719.9	2763.9	2819.8	2854.8	2910.4	2919.4	2910.4	2890.0
30°	2201.1	2195.3	2253.9	2295.0	2374.2	2400.6	2497.3	2550.1	2605.7	2602.8	2588.2
32.5°	1738.0	1750.0	1796.8	1855.4	1919.8	2001.9	2092.7	2209.9	2260.0	2271.6	2245.1
35°	1292.6	1310.2	1354.1	1403.9	1483.1	1574.0	1699.9	1811.4	1896.4	1896.4	1875.8
37.5°	932.1	937.9	978.9	1011.3	1093.2	1175.3	1283.9	1436.3	1488.9	1509.5	1488.9
40°	636.1	636.1	659.4	694.7	762.0	832.5	932.1	1046.3	1122.6	1154.8	1119.6
42.5°	404.5	410.4	427.9	451.4	501.2	562.8	639.0	724.1	779.7	803.1	770.9
45°	243.3	249.1	263.9	281.3	313.7	351.8	404.5	466.0	513.0	533.4	518.8
47.5°	146.5	152.4	158.2	170.1	193.4	219.9	246.1	281.3	310.7	313.7	307.9
50°	85.0	85.0	90.9	99.6	111.3	126.1	140.7	161.1	170.1	181.7	170.1
52.5°	55.6	55.6	55.6	58.6	64.4	70.4	76.3	88.0	93.8	93.8	90.9
55°	41.0	41.0	41.0	41.0	44.0	44.0	44.0	46.9	49.8	49.8	49.8
57.5°	29.4	29.4	29.4	32.3	32.3	32.3	29.4	29.4	29.4	29.4	29.4
60°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	20.4	20.4	20.4
62.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
65°	11.6	11.6	11.6	14.6	14.6	14.6	14.6	11.6	11.6	11.6	11.6
67.5°	8.8	8.8	8.8	11.6	11.6	11.6	11.6	11.6	8.8	8.8	8.8
70°	5.8	5.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P844518

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6	4651.6
2.5°	4663.3	4648.7	4648.7	4648.7	4642.8	4648.7	4657.4	4642.8
5°	4613.5	4619.3	4593.0	4613.5	4622.2	4607.6	4642.8	4613.5
7.5°	4569.5	4560.7	4519.7	4549.1	4566.5	4572.4	4569.5	4546.1
10°	4481.5	4461.1	4443.4	4443.4	4437.5	4434.7	4466.9	4455.3
12.5°	4323.3	4337.9	4311.7	4326.3	4314.6	4317.5	4320.4	4314.6
15°	4188.4	4173.8	4138.6	4162.0	4147.4	4132.8	4162.0	4118.0
17.5°	3977.3	3974.5	3954.0	3939.4	3945.3	3942.3	3956.9	3936.5
20°	3728.3	3734.1	3722.4	3716.6	3707.9	3687.2	3704.9	3681.4
22.5°	3458.6	3464.4	3476.3	3452.8	3455.7	3426.5	3452.8	3426.5
25°	3186.0	3183.1	3168.5	3156.8	3124.5	3092.2	3086.4	3065.9
27.5°	2887.1	2866.6	2831.4	2793.3	2743.5	2699.5	2696.5	2681.9
30°	2558.8	2514.8	2450.4	2388.8	2312.6	2245.1	2245.1	2221.8
32.5°	2213.0	2113.3	2025.3	1949.2	1849.6	1811.4	1773.2	1752.8
35°	1799.8	1711.8	1606.1	1480.3	1433.3	1339.5	1345.4	1298.5
37.5°	1409.8	1301.4	1201.8	1099.2	1017.1	973.1	949.5	926.3
40°	1046.3	940.9	832.5	764.9	691.8	653.6	639.0	633.2
42.5°	715.1	627.2	556.9	501.2	463.1	422.1	410.4	404.5
45°	466.0	416.2	351.8	307.9	281.3	258.1	258.1	249.1
47.5°	278.5	246.1	214.1	184.7	167.1	152.4	146.5	143.6
50°	155.3	137.8	120.3	108.4	96.7	88.0	85.0	85.0
52.5°	85.0	76.3	70.4	61.4	55.6	55.6	55.6	52.8
55°	44.0	44.0	44.0	44.0	41.0	41.0	41.0	38.2
57.5°	29.4	29.4	32.3	32.3	32.3	29.4	29.4	29.4
60°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
62.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
65°	11.6	14.6	14.6	14.6	14.6	11.6	11.6	11.6
67.5°	8.8	11.6	11.6	11.6	8.8	8.8	8.8	8.8
70°	8.8	8.8	8.8	8.8	8.8	5.8	5.8	5.8
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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)