

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: P844501

Luminaire Tested: **LD6C40DE010B40 EU6C40B40 6LBSQLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P844501  
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: LD6C40DE010B40 EU6C40B40 6LBSQLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

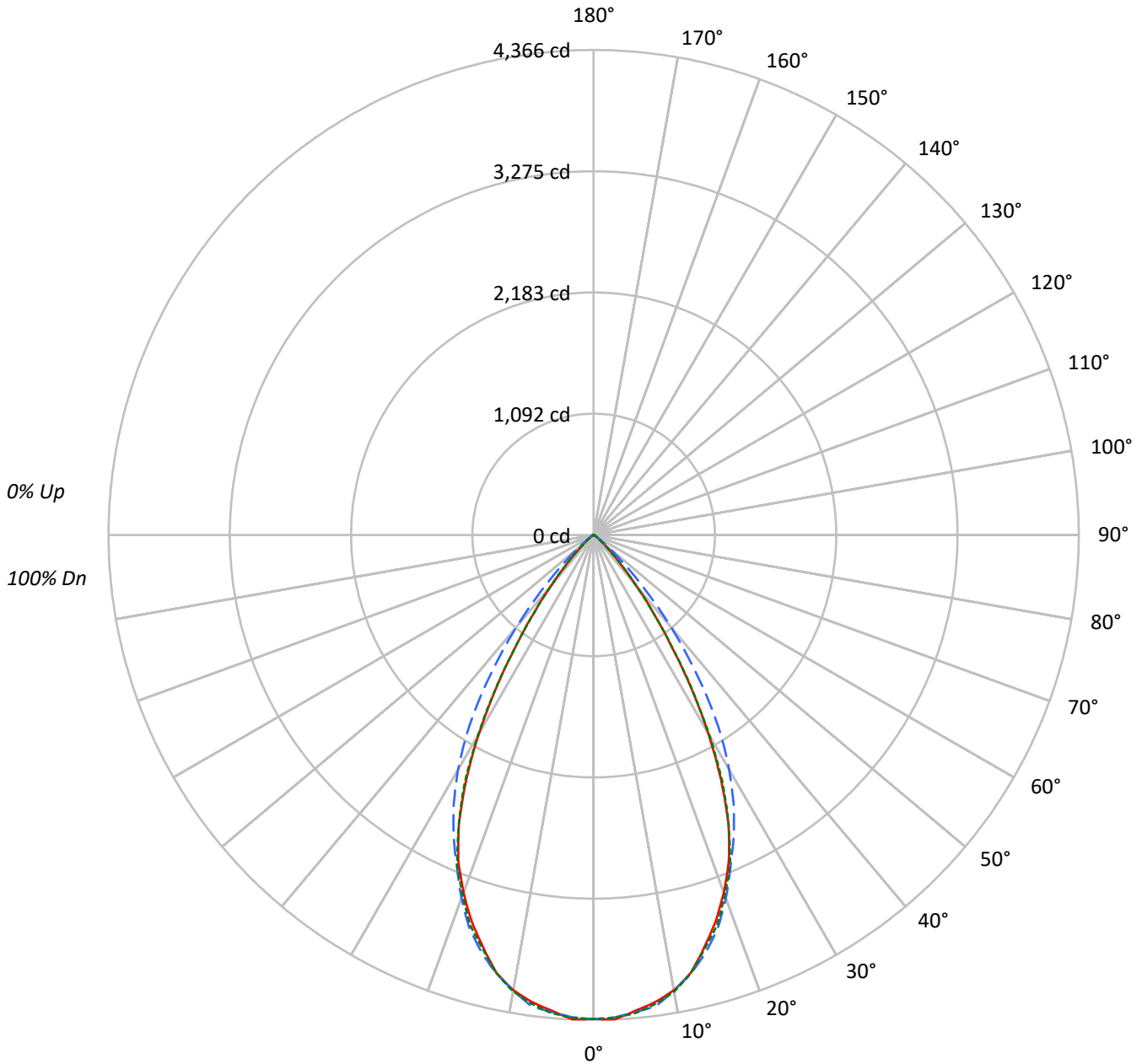
Lumens per Lamp: N/A  
Luminaire Lumens: 4095.1 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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

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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	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°	187632	187632	187632
5°	185855	186331	186802
10°	181997	181997	182487
15°	171358	173560	171968
20°	156888	159413	158025
25°	136325	141665	136453
30°	102525	121233	103485
35°	63652	93386	63941
40°	33498	60814	33341
45°	13877	30427	14206
50°	5332	11407	5332
55°	2890	3498	2680
60°	1903	1645	1903
65°	1110	1110	1110
70°	692	1032	692
75°	449	449	449
80°	669	669	669
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.0	10.0
10°-20°	1085.3	26.5
20°-30°	1331.9	32.5
30°-40°	919.5	22.5
40°-50°	287.5	7.0
50°-60°	44.9	1.1
60°-70°	12.9	0.3
70°-80°	4.2	0.1
80°-90°	0.9	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°	2825.1	69.0
0°-40°	3744.6	91.4
0°-60°	4077.0	99.6
0°-90°	4095.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4358	4358	4358	4358	4358	
5°	4300	4317	4311	4313	4322	407
15°	3844	3899	3894	3888	3858	1075
25°	2870	2944	2982	2963	2872	1286
35°	1211	1432	1777	1446	1216	774
45°	228	312	500	309	233	204
55°	38	41	47	41	36	37
65°	11	14	11	14	11	12
75°	3	3	3	3	3	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9
2.5°	4366.0	4305.7	4344.1	4335.8	4357.9	4371.5	4357.9	4382.5	4366.0	4346.9	4352.4
5°	4300.2	4308.5	4305.7	4311.2	4316.6	4316.6	4344.1	4346.9	4352.4	4311.2	4322.1
7.5°	4242.5	4242.5	4256.3	4250.6	4270.0	4264.5	4267.2	4289.1	4291.9	4280.9	4272.7
10°	4162.8	4151.8	4138.2	4138.2	4162.8	4165.5	4187.6	4190.3	4206.7	4162.8	4168.5
12.5°	4039.4	4033.7	4011.8	4022.8	4042.1	4031.0	4066.7	4069.5	4064.0	4044.8	4055.8
15°	3844.3	3866.4	3860.7	3858.0	3901.9	3896.4	3893.7	3901.9	3904.7	3893.7	3885.5
17.5°	3649.5	3668.6	3671.4	3676.8	3685.0	3693.4	3704.4	3734.6	3723.5	3715.3	3742.8
20°	3424.1	3415.9	3437.9	3459.8	3468.1	3468.1	3484.7	3506.5	3490.1	3479.2	3481.9
22.5°	3179.9	3193.5	3182.5	3204.4	3215.5	3229.3	3245.7	3265.0	3251.2	3221.0	3256.8
25°	2869.6	2877.8	2913.5	2910.7	2927.2	2960.2	2984.7	2984.7	2984.7	2982.0	2982.0
27.5°	2479.6	2474.1	2518.1	2548.2	2589.4	2641.7	2674.5	2726.7	2735.0	2726.7	2707.5
30°	2062.2	2056.7	2111.6	2150.1	2224.2	2249.1	2339.6	2389.0	2441.1	2438.5	2424.7
32.5°	1628.3	1639.4	1683.3	1738.2	1798.6	1875.5	1960.6	2070.4	2117.2	2128.2	2103.3
35°	1211.0	1227.4	1268.6	1315.3	1389.5	1474.7	1592.6	1697.0	1776.7	1776.7	1757.4
37.5°	873.2	878.7	917.2	947.4	1024.2	1101.1	1202.8	1345.5	1394.9	1414.1	1394.9
40°	596.0	596.0	617.8	650.8	713.9	779.9	873.2	980.2	1051.7	1082.0	1049.0
42.5°	379.0	384.4	400.8	422.9	469.6	527.2	598.6	678.4	730.5	752.4	722.3
45°	227.9	233.3	247.2	263.6	293.8	329.6	379.0	436.6	480.6	499.7	486.0
47.5°	137.3	142.8	148.2	159.3	181.2	206.0	230.6	263.6	291.2	293.8	288.4
50°	79.6	79.6	85.1	93.4	104.3	118.1	131.8	150.9	159.3	170.3	159.3
52.5°	52.1	52.1	52.1	54.9	60.4	66.0	71.5	82.4	87.9	87.9	85.1
55°	38.5	38.5	38.5	38.5	41.2	41.2	41.2	43.9	46.6	46.6	46.6
57.5°	27.5	27.5	27.5	30.2	30.2	30.2	27.5	27.5	27.5	27.5	27.5
60°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	19.1	19.1	19.1
62.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
65°	10.9	10.9	10.9	13.6	13.6	13.6	13.6	10.9	10.9	10.9	10.9
67.5°	8.2	8.2	8.2	10.9	10.9	10.9	10.9	10.9	8.2	8.2	8.2
70°	5.5	5.5	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9
2.5°	4368.8	4355.1	4355.1	4355.1	4349.6	4355.1	4363.4	4349.6
5°	4322.1	4327.6	4303.0	4322.1	4330.4	4316.6	4349.6	4322.1
7.5°	4280.9	4272.7	4234.2	4261.7	4278.2	4283.6	4280.9	4259.1
10°	4198.5	4179.3	4162.8	4162.8	4157.3	4154.6	4184.8	4174.0
12.5°	4050.3	4064.0	4039.4	4053.1	4042.1	4044.8	4047.6	4042.1
15°	3924.0	3910.3	3877.3	3899.2	3885.5	3871.9	3899.2	3858.0
17.5°	3726.1	3723.5	3704.4	3690.6	3696.1	3693.4	3707.0	3687.9
20°	3492.8	3498.3	3487.3	3481.9	3473.7	3454.3	3470.9	3448.9
22.5°	3240.2	3245.7	3256.8	3234.7	3237.4	3210.1	3234.7	3210.1
25°	2984.7	2982.0	2968.4	2957.5	2927.2	2897.0	2891.5	2872.3
27.5°	2704.8	2685.6	2652.7	2616.9	2570.3	2529.0	2526.3	2512.6
30°	2397.2	2356.0	2295.7	2238.0	2166.7	2103.3	2103.3	2081.5
32.5°	2073.3	1979.8	1897.4	1826.1	1732.7	1697.0	1661.3	1642.2
35°	1686.1	1603.7	1504.7	1386.8	1342.8	1255.0	1260.4	1216.5
37.5°	1320.8	1219.2	1125.9	1029.8	952.8	911.7	889.6	867.8
40°	980.2	881.4	779.9	716.7	648.1	612.4	598.6	593.2
42.5°	669.9	587.5	521.7	469.6	433.8	395.4	384.4	379.0
45°	436.6	389.9	329.6	288.4	263.6	241.8	241.8	233.3
47.5°	260.9	230.6	200.5	173.0	156.6	142.8	137.3	134.5
50°	145.5	129.0	112.6	101.5	90.6	82.4	79.6	79.6
52.5°	79.6	71.5	66.0	57.6	52.1	52.1	52.1	49.4
55°	41.2	41.2	41.2	41.2	38.5	38.5	38.5	35.7
57.5°	27.5	27.5	30.2	30.2	30.2	27.5	27.5	27.5
60°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
62.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
65°	10.9	13.6	13.6	13.6	13.6	10.9	10.9	10.9
67.5°	8.2	10.9	10.9	10.9	8.2	8.2	8.2	8.2
70°	8.2	8.2	8.2	8.2	8.2	5.5	5.5	5.5
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7	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)