

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: P844450

Luminaire Tested: **LD6C40DE010B2750 EU6C40B27 6LBSQLI**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P844450  
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: LD6C40DE010B2750 EU6C40B27 6LBSQLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

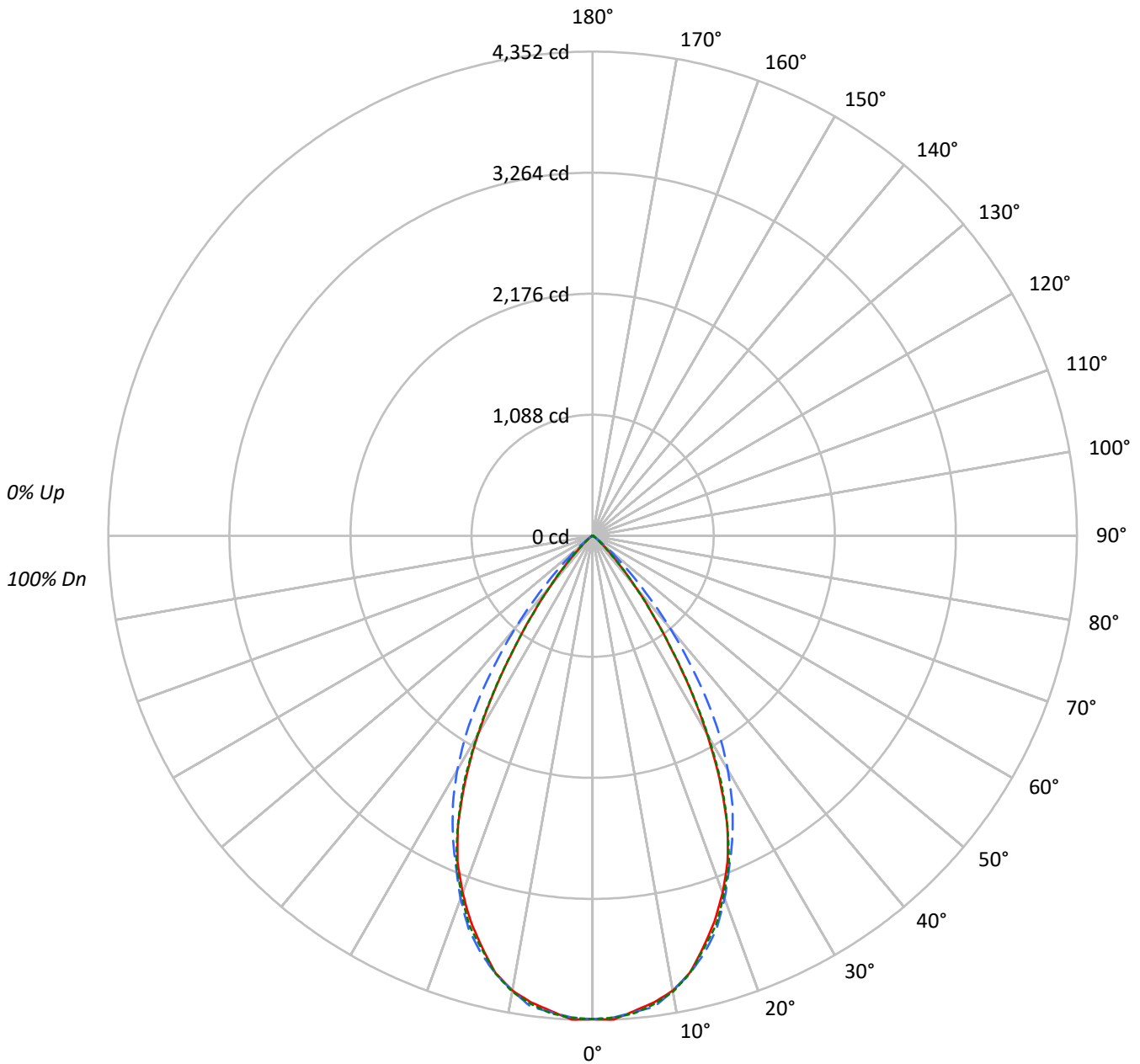
Lumens per Lamp: N/A  
Luminaire Lumens: 4082.4 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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°	187047	187047	187047
5°	185280	185751	186223
10°	181433	181433	181914
15°	170827	173020	171438
20°	156403	158918	157539
25°	135902	141228	136031
30°	102207	120856	103166
35°	63457	93096	63741
40°	33391	60623	33234
45°	13834	30329	14163
50°	5318	11374	5318
55°	2883	3491	2672
60°	1894	1636	1894
65°	1110	1110	1110
70°	692	1020	692
75°	449	449	449
80°	669	669	669
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.7	10.0
10°-20°	1081.9	26.5
20°-30°	1327.8	32.5
30°-40°	916.6	22.5
40°-50°	286.6	7.0
50°-60°	44.8	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°	2816.4	69.0
0°-40°	3733.0	91.4
0°-60°	4064.4	99.6
0°-90°	4082.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4082.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4344	4344	4344	4344	4344	
5°	4287	4303	4298	4299	4309	405
15°	3832	3887	3882	3876	3846	1072
25°	2861	2935	2973	2954	2863	1282
35°	1207	1428	1771	1441	1213	771
45°	227	311	498	308	233	204
55°	38	41	46	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°	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3
2.5°	4352.5	4292.4	4330.7	4322.3	4344.3	4358.0	4344.3	4368.9	4352.5	4333.4	4338.9
5°	4286.9	4295.1	4292.4	4297.8	4303.3	4303.3	4330.7	4333.4	4338.9	4297.8	4308.7
7.5°	4229.3	4229.3	4243.1	4237.5	4256.8	4251.3	4254.0	4275.8	4278.6	4267.7	4259.5
10°	4149.9	4138.9	4125.4	4125.4	4149.9	4152.6	4174.6	4177.3	4193.7	4149.9	4155.5
12.5°	4026.8	4021.2	3999.4	4010.3	4029.6	4018.5	4054.1	4056.9	4051.4	4032.3	4043.2
15°	3832.4	3854.4	3848.7	3846.1	3889.9	3884.4	3881.6	3889.9	3892.5	3881.6	3873.5
17.5°	3638.2	3657.2	3659.9	3665.4	3673.6	3681.9	3692.8	3723.0	3711.9	3703.7	3731.2
20°	3413.5	3405.4	3427.4	3449.2	3457.3	3457.3	3473.8	3495.7	3479.3	3468.4	3471.2
22.5°	3169.9	3183.6	3172.7	3194.5	3205.6	3219.2	3235.6	3254.9	3241.0	3211.1	3246.7
25°	2860.7	2868.8	2904.5	2901.7	2918.1	2951.0	2975.5	2975.5	2975.5	2972.8	2972.8
27.5°	2471.9	2466.5	2510.3	2540.3	2581.4	2633.5	2666.2	2718.2	2726.6	2718.2	2699.1
30°	2055.8	2050.3	2105.0	2143.4	2217.3	2242.1	2332.4	2381.6	2433.6	2430.9	2417.2
32.5°	1623.3	1634.4	1678.1	1732.8	1793.0	1869.7	1954.5	2064.0	2110.6	2121.5	2096.9
35°	1207.3	1223.6	1264.7	1311.3	1385.2	1470.0	1587.6	1691.8	1771.2	1771.2	1752.0
37.5°	870.5	875.9	914.3	944.5	1020.9	1097.7	1199.0	1341.4	1390.6	1409.7	1390.6
40°	594.1	594.1	615.9	648.8	711.7	777.5	870.5	977.1	1048.4	1078.6	1045.7
42.5°	377.8	383.3	399.7	421.6	468.1	525.5	596.8	676.3	728.2	750.0	720.0
45°	227.2	232.6	246.4	262.8	293.0	328.6	377.8	435.2	479.0	498.1	484.5
47.5°	136.9	142.3	147.8	158.9	180.6	205.4	229.9	262.8	290.2	293.0	287.5
50°	79.4	79.4	84.8	93.1	104.0	117.7	131.4	150.5	158.9	169.8	158.9
52.5°	51.9	51.9	51.9	54.7	60.2	65.8	71.3	82.2	87.6	87.6	84.8
55°	38.4	38.4	38.4	38.4	41.0	41.0	41.0	43.8	46.5	46.5	46.5
57.5°	27.4	27.4	27.4	30.1	30.1	30.1	27.4	27.4	27.4	27.4	27.4
60°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	19.0	19.0	19.0
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°	8.1	8.1	8.1	10.9	10.9	10.9	10.9	10.9	8.1	8.1	8.1
70°	5.5	5.5	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
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°	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3	4344.3
2.5°	4355.2	4341.6	4341.6	4341.6	4336.2	4341.6	4349.8	4336.2
5°	4308.7	4314.2	4289.7	4308.7	4316.9	4303.3	4336.2	4308.7
7.5°	4267.7	4259.5	4221.1	4248.6	4264.9	4270.4	4267.7	4245.9
10°	4185.5	4166.4	4149.9	4149.9	4144.4	4141.7	4171.8	4160.9
12.5°	4037.7	4051.4	4026.8	4040.5	4029.6	4032.3	4035.1	4029.6
15°	3911.9	3898.2	3865.3	3887.1	3873.5	3859.8	3887.1	3846.1
17.5°	3714.6	3711.9	3692.8	3679.2	3684.7	3681.9	3695.6	3676.4
20°	3482.0	3487.4	3476.5	3471.2	3462.9	3443.7	3460.3	3438.3
22.5°	3230.1	3235.6	3246.7	3224.7	3227.4	3200.2	3224.7	3200.2
25°	2975.5	2972.8	2959.2	2948.3	2918.1	2888.0	2882.5	2863.4
27.5°	2696.4	2677.3	2644.4	2608.8	2562.2	2521.2	2518.4	2504.8
30°	2389.8	2348.7	2288.6	2231.0	2159.9	2096.9	2096.9	2075.1
32.5°	2066.8	1973.7	1891.5	1820.4	1727.3	1691.8	1656.1	1637.0
35°	1680.9	1598.7	1500.0	1382.4	1338.6	1251.1	1256.5	1212.7
37.5°	1316.6	1215.4	1122.4	1026.6	950.0	908.8	886.8	865.0
40°	977.1	878.7	777.5	714.4	646.1	610.5	596.8	591.3
42.5°	667.9	585.7	520.1	468.1	432.6	394.2	383.3	377.8
45°	435.2	388.7	328.6	287.5	262.8	240.9	240.9	232.6
47.5°	260.1	229.9	199.9	172.5	156.1	142.3	136.9	134.1
50°	145.0	128.7	112.3	101.2	90.3	82.2	79.4	79.4
52.5°	79.4	71.3	65.8	57.4	51.9	51.9	51.9	49.3
55°	41.0	41.0	41.0	41.0	38.4	38.4	38.4	35.6
57.5°	27.4	27.4	30.1	30.1	30.1	27.4	27.4	27.4
60°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
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°	8.1	10.9	10.9	10.9	8.1	8.1	8.1	8.1
70°	8.1	8.1	8.1	8.1	8.1	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)