

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: CORELITE

Report Number: P844882

Luminaire Tested: **SQ4P-BB-150U-050D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844882
REPORT IS A COMBINATION OF REPORTS P700131 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-150U-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

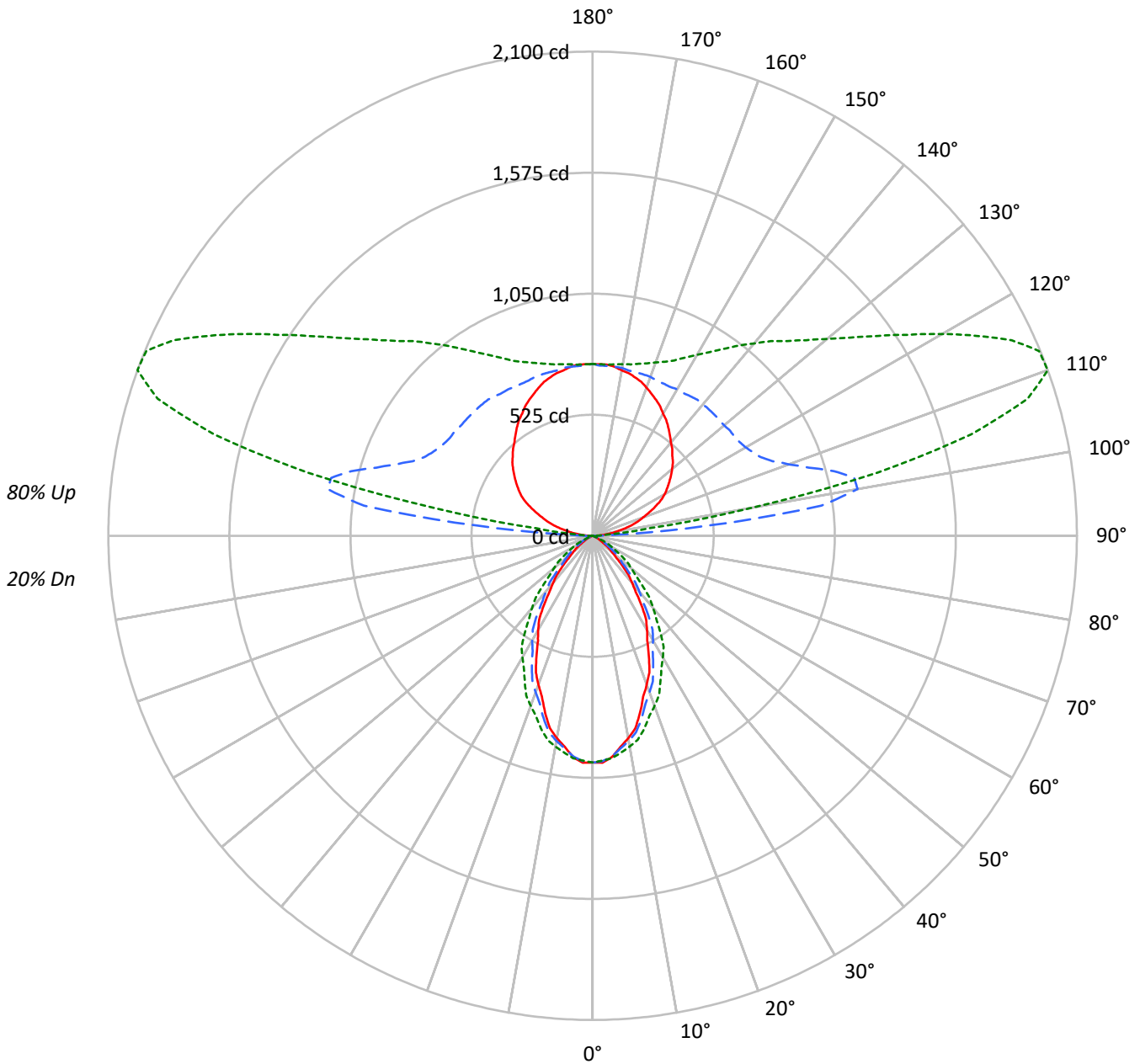
Lumens per Lamp: N/A
Luminaire Lumens: 6006.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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

TEST NUMBER: P844882

CATALOG NUMBER: SQ4P-BB-150U-050D-B50-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P844882

CATALOG NUMBER: SQ4P-BB-150U-050D-B50-1D-UNV

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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	20																			
1	92	88	84	81	81	78	75	72	59	57	56	42	41	40	26	25	25	18																			
2	84	77	72	67	74	69	64	61	53	50	47	38	36	34	24	23	22	16																			
3	77	69	62	57	68	61	56	51	47	43	40	34	32	30	22	21	20	15																			
4	71	61	54	49	62	55	49	44	42	38	35	31	28	26	20	19	18	13																			
5	65	55	47	42	57	49	43	38	38	34	30	28	25	23	18	17	16	12																			
6	60	49	42	37	53	44	38	33	34	30	27	25	23	20	17	15	14	11																			
7	56	44	37	32	49	40	34	29	31	27	24	23	20	18	15	14	13	10																			
8	52	40	33	28	46	36	30	26	29	24	21	21	18	16	14	13	12	9																			
9	48	37	30	25	43	33	27	23	26	22	19	20	17	15	13	12	11	9																			
10	45	34	27	23	40	30	25	21	24	20	17	18	15	14	13	11	10	8																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9072	9072	9072
5°	8925	8904	8970
10°	8351	8464	8699
15°	7592	7833	8270
20°	6739	7090	7710
25°	5869	6333	7084
30°	5027	5579	6491
35°	4168	4736	5776
40°	3202	3788	4921
45°	2316	2868	3960
50°	1577	2136	3142
55°	1026	1546	2442
60°	589	1089	1766
65°	155	666	893
70°	81	205	256
75°	36	18	0
80°	27	0	0
85°	0	0	0



TEST NUMBER: P844882

CATALOG NUMBER: SQ4P-BB-150U-050D-B50-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.5
10°-20°	229.5	3.8
20°-30°	287.3	4.8
30°-40°	265.3	4.4
40°-50°	178.3	3.0
50°-60°	92.1	1.5
60°-70°	28.8	0.5
70°-80°	1.8	0.0
80°-90°	1.8	0.0
90°-100°	296.3	4.9
100°-110°	1031.0	17.2
110°-120°	998.8	16.6
120°-130°	783.5	13.0
130°-140°	620.1	10.3
140°-150°	478.6	8.0
150°-160°	343.1	5.7
160°-170°	209.8	3.5
170°-180°	71.0	1.2
0°-30°	606.5	10.1
0°-40°	871.8	14.5
0°-60°	1142.2	19.0
0°-90°	1174.7	19.6
90°-120°	2326.1	38.7
90°-150°	4208.3	70.1
90°-180°	4832.0	80.4
0°-180°	6006.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	964	954	961	965	968	89
15°	795	792	820	848	866	221
25°	576	581	622	665	696	264
35°	370	379	420	470	513	229
45°	178	188	220	263	304	139
55°	64	74	96	123	152	60
65°	7	14	30	37	41	12
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
90°	11	17	17	11	6	7
95°	50	172	500	128	78	53
105°	172	244	1084	1828	1700	181
115°	300	361	806	1700	2006	296
125°	406	500	750	1267	1511	363
135°	489	550	745	1056	1195	379
145°	572	611	739	911	989	358
155°	650	672	728	811	839	300
165°	711	717	733	767	772	201
175°	745	745	739	750	745	71
180°	745	745	745	745	745	



TEST NUMBER: P844882

CATALOG NUMBER: SQ4P-BB-150U-050D-B50-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.3	983.3	983.3	983.3	983.3
2.5°	985.5	976.2	978.6	978.6	976.0
5°	963.7	953.9	961.4	964.7	968.5
7.5°	923.1	915.4	929.7	940.1	947.9
10°	891.4	884.9	903.4	917.8	928.5
12.5°	854.8	849.8	872.1	892.0	905.7
15°	794.8	792.1	820.1	847.6	865.8
17.5°	730.6	730.5	762.4	796.7	818.5
20°	686.4	687.8	722.1	759.8	785.3
22.5°	642.2	645.5	682.1	721.4	750.8
25°	576.5	581.1	622.1	664.8	695.9
27.5°	513.3	520.2	563.3	607.5	645.5
30°	471.9	479.8	523.7	570.3	609.3
32.5°	431.1	440.6	483.3	532.7	572.4
35°	370.1	379.4	420.5	470.0	512.8
37.5°	307.0	316.1	356.2	405.0	451.3
40°	265.9	276.1	314.5	361.7	408.6
42.5°	228.7	238.9	274.8	321.2	365.6
45°	177.5	188.1	219.8	262.6	303.5
47.5°	135.1	146.6	174.3	213.2	250.4
50°	109.9	121.5	148.8	183.0	218.9
52.5°	89.7	101.0	125.7	157.8	190.6
55°	63.8	74.4	96.1	123.4	151.8
57.5°	44.1	53.3	72.7	95.4	117.7
60°	31.9	40.7	59.0	77.4	95.7
62.5°	21.2	29.3	47.1	61.4	73.6
65°	7.1	13.7	30.5	36.7	40.9
67.5°	3.6	4.3	15.9	16.9	18.3
70°	3.0	3.0	7.6	8.1	9.5
72.5°	2.0	2.0	3.0	3.9	4.2
75°	1.0	1.0	0.5	0.0	0.0
77.5°	0.5	0.5	0.5	0.0	0.0
80°	0.5	0.5	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	11.1	16.7	16.7	11.1	5.5
92.5°	27.8	83.3	77.8	33.3	27.8
95°	50.0	172.2	500.1	127.8	77.8
97.5°	77.8	194.5	1000.2	455.6	244.5
100°	105.6	205.5	1166.9	1094.6	705.6
102.5°	138.9	222.3	1161.3	1539.1	1266.9
105°	172.2	244.5	1083.5	1828.1	1700.3



TEST NUMBER: P844882

CATALOG NUMBER: SQ4P-BB-150U-050D-B50-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.7	327.9	844.5	1839.2	2094.7
115°	300.1	361.2	805.7	1700.3	2005.9
117.5°	333.4	400.0	783.4	1572.5	1878.1
120°	361.2	433.4	766.8	1450.2	1750.3
122.5°	383.4	466.8	755.7	1350.3	1622.4
125°	405.7	500.1	750.1	1266.9	1511.3
127.5°	427.8	522.3	750.1	1205.7	1411.4
130°	450.1	533.4	744.6	1144.6	1328.0
132.5°	472.3	538.9	744.6	1100.2	1255.7
135°	489.0	550.1	744.6	1055.7	1194.6
137.5°	511.2	561.2	744.6	1016.9	1144.6
140°	527.9	577.9	744.6	977.9	1089.0
142.5°	550.1	594.5	744.6	939.1	1039.0
145°	572.4	611.2	739.0	911.3	989.1
147.5°	594.5	627.9	733.4	883.5	944.6
150°	611.2	644.5	733.4	855.7	905.7
152.5°	633.5	661.2	727.9	827.9	872.3
155°	650.1	672.3	727.9	811.2	839.0
157.5°	666.8	689.0	727.9	794.6	816.8
160°	683.5	700.1	733.4	783.4	800.1
162.5°	700.1	711.3	733.4	772.4	783.4
165°	711.3	716.8	733.4	766.8	772.4
167.5°	722.3	727.9	733.4	761.2	761.2
170°	727.9	733.4	739.0	755.7	755.7
172.5°	739.0	739.0	739.0	750.1	750.1
175°	744.6	744.6	739.0	750.1	744.6
177.5°	744.6	744.6	739.0	750.1	744.6
180°	744.6	744.6	744.6	744.6	744.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	205.5	272.3	983.5	1955.8	1978.1
110°	233.3	300.1	905.7	1939.2	2100.4



(END OF REPORT)