

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: P844966

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844966
REPORT IS A COMBINATION OF REPORTS P700135 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-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

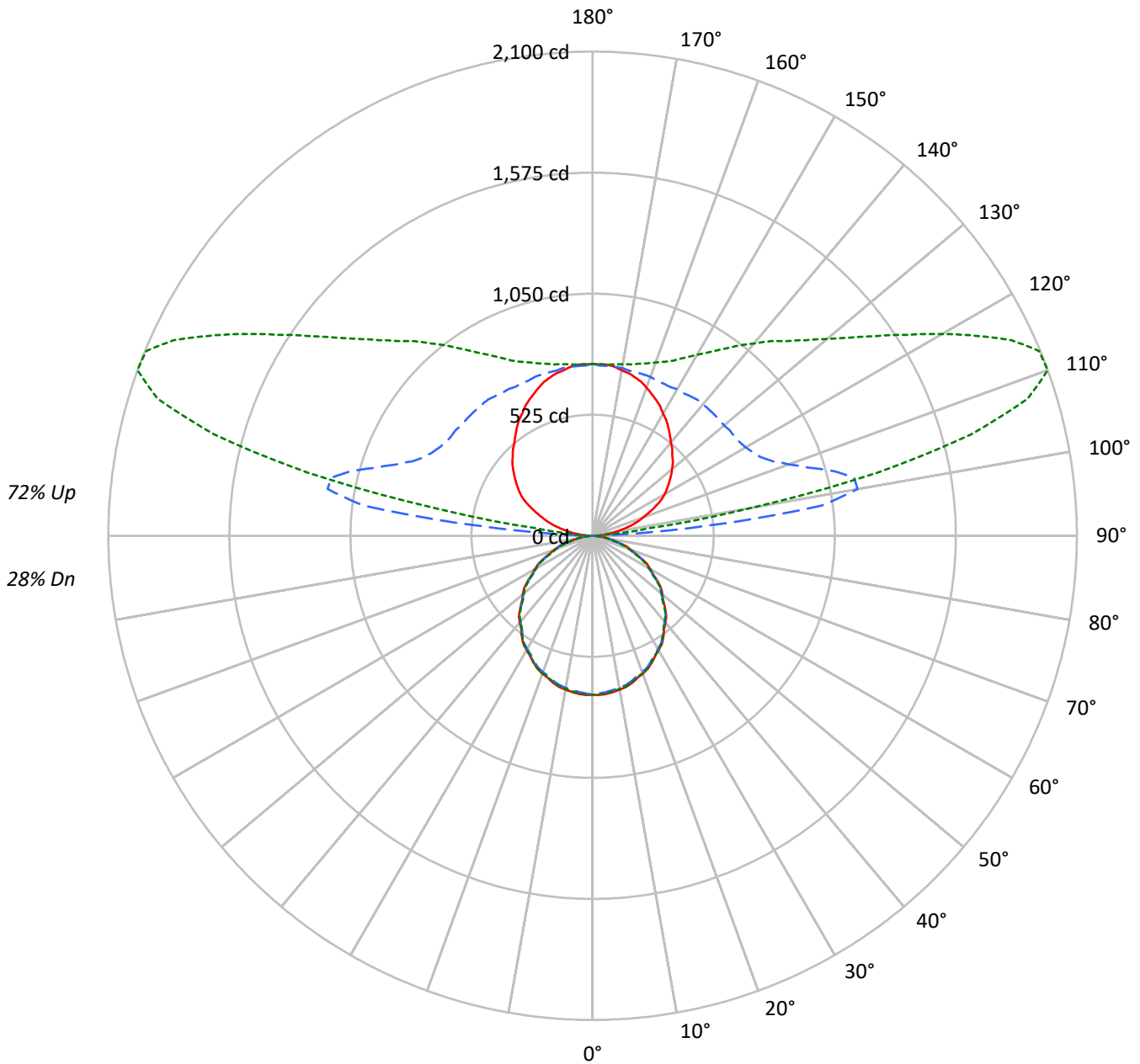
Lumens per Lamp: N/A
Luminaire Lumens: 6715.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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

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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28																			
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	32	31	30	24																			
2	84	77	71	66	75	69	64	60	54	51	48	41	38	36	28	27	25	20																			
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17																			
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	18	14																			
5	64	53	45	40	57	48	41	36	38	33	29	28	25	23	20	18	16	12																			
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11																			
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	10																			
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	8																			
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	12	10	8																			
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9	7																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6360	6360	6360
5°	6376	6299	6350
10°	6353	6275	6319
15°	6310	6231	6284
20°	6250	6179	6224
25°	6180	6106	6163
30°	6095	6045	6084
35°	6028	5956	5986
40°	5914	5856	5868
45°	5791	5742	5742
50°	5668	5616	5589
55°	5537	5463	5432
60°	5329	5244	5211
65°	5076	4975	4914
70°	4732	4629	4529
75°	4242	4114	4010
80°	3432	3390	3284
85°	2032	2350	2435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.0
10°-20°	185.2	2.8
20°-30°	278.2	4.1
30°-40°	332.1	4.9
40°-50°	340.3	5.1
50°-60°	303.4	4.5
60°-70°	226.0	3.4
70°-80°	122.7	1.8
80°-90°	30.2	0.4
90°-100°	296.3	4.4
100°-110°	1031.0	15.4
110°-120°	998.8	14.9
120°-130°	783.5	11.7
130°-140°	620.1	9.2
140°-150°	478.6	7.1
150°-160°	343.1	5.1
160°-170°	209.8	3.1
170°-180°	71.0	1.1
0°-30°	528.4	7.9
0°-40°	860.4	12.8
0°-60°	1504.2	22.4
0°-90°	1883.0	28.0
90°-120°	2326.1	34.6
90°-150°	4208.3	62.7
90°-180°	4832.0	72.0
0°-180°	6715.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	688	688	680	686	686	65
15°	661	659	652	658	658	186
25°	607	605	600	604	605	280
35°	535	533	529	529	532	334
45°	444	445	440	439	440	343
55°	344	344	340	337	338	307
65°	232	232	228	225	225	230
75°	119	118	115	114	112	126
85°	19	21	22	23	23	27
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.3	689.3	689.3	689.3	689.3
2.5°	691.4	690.0	684.0	689.3	688.6
5°	688.4	687.5	680.1	686.4	685.6
7.5°	683.4	681.6	674.3	680.6	679.7
10°	678.1	676.3	669.8	675.4	674.5
12.5°	671.6	670.5	663.3	668.8	668.6
15°	660.6	658.8	652.3	657.9	657.9
17.5°	646.2	645.2	638.8	644.1	643.6
20°	636.6	634.9	629.3	633.9	633.9
22.5°	624.8	623.8	618.2	622.1	622.8
25°	607.1	605.4	599.8	603.5	605.4
27.5°	587.6	586.2	581.6	583.9	585.2
30°	572.1	572.1	567.4	568.5	571.1
32.5°	558.1	558.1	552.7	553.7	554.9
35°	535.2	533.4	528.8	528.8	531.5
37.5°	508.6	507.7	504.8	504.2	505.0
40°	491.0	490.0	486.2	487.2	487.2
42.5°	473.3	472.2	468.5	467.3	468.7
45°	443.8	444.8	440.1	439.2	440.1
47.5°	415.0	415.0	411.2	408.6	410.0
50°	394.9	394.9	391.3	389.4	389.4
52.5°	374.2	375.0	370.4	368.0	368.7
55°	344.2	344.2	339.6	336.8	337.7
57.5°	310.9	310.9	306.4	303.6	305.2
60°	288.8	288.8	284.2	281.4	282.4
62.5°	266.7	266.7	262.1	259.3	259.4
65°	232.5	231.6	227.9	225.1	225.1
67.5°	199.6	197.3	194.5	190.9	190.9
70°	175.4	174.3	171.6	167.9	167.9
72.5°	153.2	151.6	148.7	145.9	145.9
75°	119.0	118.1	115.4	113.5	112.5
77.5°	85.3	84.5	84.3	81.8	82.5
80°	64.6	64.6	63.8	61.8	61.8
82.5°	46.1	46.8	45.2	44.8	44.1
85°	19.2	21.1	22.2	23.0	23.0
87.5°	3.8	5.8	5.1	5.9	5.9
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



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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)