

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: P844956

Luminaire Tested: **SQ4P-F-125U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844956
REPORT IS A COMBINATION OF REPORTS P700108 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-125U-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

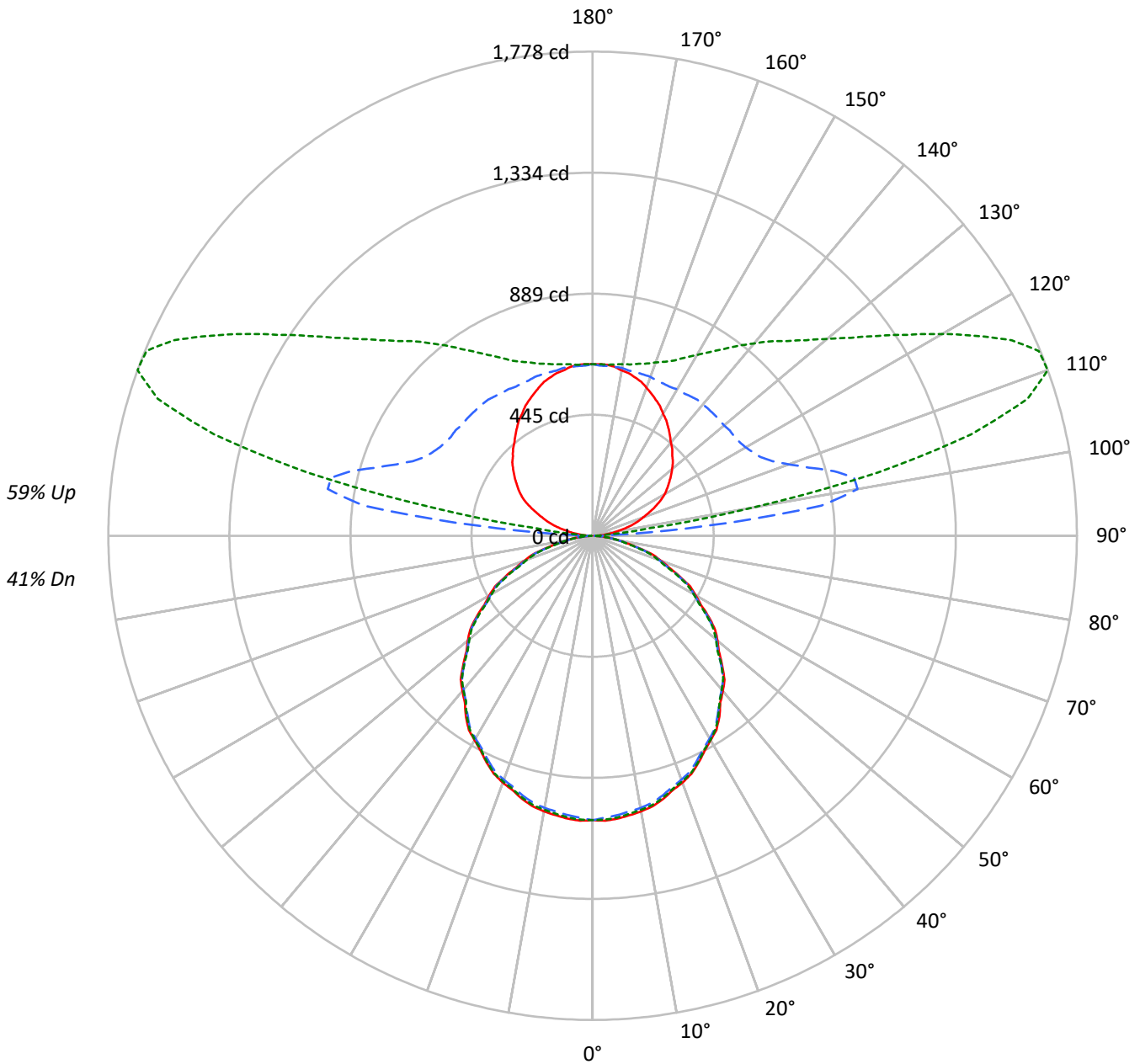
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6941.8 lumens
Efficiency: N/A
Efficacy: 116.5 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: General Diffuse

Input Watts (W): 59.6
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				20				20	
RC	80				70				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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48	41				41
1	96	91	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	35				35
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	35	34	29				29
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	33	31	29	24				24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21				21
5	67	55	47	41	60	50	43	38	42	37	32	34	30	27	26	24	21	18				18
6	61	49	41	35	56	45	38	33	38	32	28	30	27	23	24	21	19	16				16
7	57	44	36	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14				14
8	52	40	33	27	48	37	30	25	31	26	22	25	21	18	20	17	15	12				12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	16	13	11				11
10	45	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9634	9634	9634
5°	9659	9542	9619
10°	9625	9507	9574
15°	9559	9440	9520
20°	9469	9361	9429
25°	9363	9250	9336
30°	9233	9159	9217
35°	9133	9023	9069
40°	8959	8873	8890
45°	8772	8700	8700
50°	8588	8509	8469
55°	8389	8276	8231
60°	8075	7946	7894
65°	7691	7538	7444
70°	7165	7011	6863
75°	6424	6228	6078
80°	5202	5133	4973
85°	3091	3557	3694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.4
10°-20°	280.6	4.0
20°-30°	421.4	6.1
30°-40°	503.1	7.2
40°-50°	515.5	7.4
50°-60°	459.7	6.6
60°-70°	342.4	4.9
70°-80°	185.8	2.7
80°-90°	44.6	0.6
90°-100°	250.8	3.6
100°-110°	872.7	12.6
110°-120°	845.4	12.2
120°-130°	663.2	9.6
130°-140°	524.9	7.6
140°-150°	405.1	5.8
150°-160°	290.4	4.2
160°-170°	177.6	2.6
170°-180°	60.1	0.9
0°-30°	800.5	11.5
0°-40°	1303.6	18.8
0°-60°	2278.8	32.8
0°-90°	2851.6	41.1
90°-120°	1969.0	28.4
90°-150°	3562.1	51.3
90°-180°	4090.0	58.9
0°-180°	6941.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1043	1042	1030	1040	1039	99
15°	1001	998	988	997	997	282
25°	920	917	909	914	917	424
35°	811	808	801	801	805	506
45°	672	674	667	665	667	519
55°	522	522	514	510	512	464
65°	352	351	345	341	341	349
75°	180	179	175	172	170	191
85°	29	32	34	35	35	41
90°	9	14	14	9	5	7
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1044.2	1044.2	1044.2	1044.2	1044.2
2.5°	1047.5	1045.3	1036.4	1044.2	1043.2
5°	1042.9	1041.5	1030.3	1040.0	1038.6
7.5°	1035.3	1032.6	1021.5	1031.2	1029.7
10°	1027.4	1024.6	1014.8	1023.1	1021.9
12.5°	1017.4	1015.8	1004.9	1013.3	1012.9
15°	1000.8	998.0	988.3	996.7	996.7
17.5°	979.1	977.5	967.8	975.8	975.1
20°	964.4	961.8	953.4	960.3	960.3
22.5°	946.7	945.0	936.7	942.4	943.6
25°	919.7	917.1	908.6	914.3	917.1
27.5°	890.2	888.0	881.1	884.7	886.6
30°	866.7	866.7	859.7	861.1	865.2
32.5°	845.5	845.5	837.4	838.8	840.8
35°	810.9	808.1	801.1	801.1	805.2
37.5°	770.4	769.1	764.7	763.9	765.1
40°	743.9	742.4	736.7	738.1	738.1
42.5°	716.9	715.5	709.7	707.9	710.0
45°	672.3	673.8	666.8	665.4	666.8
47.5°	628.6	628.6	622.9	619.0	621.2
50°	598.3	598.3	592.8	590.0	590.0
52.5°	567.0	568.1	561.3	557.5	558.7
55°	521.5	521.5	514.5	510.3	511.7
57.5°	471.1	471.1	464.2	459.9	462.3
60°	437.6	437.6	430.6	426.3	427.8
62.5°	404.0	404.0	397.1	392.9	393.1
65°	352.3	351.0	345.3	341.0	341.0
67.5°	302.4	298.9	294.7	289.1	289.1
70°	265.6	264.2	259.9	254.4	254.4
72.5°	232.0	229.6	225.3	220.9	220.9
75°	180.2	178.8	174.7	172.0	170.5
77.5°	129.2	128.1	127.7	123.8	125.0
80°	97.9	97.9	96.6	93.6	93.6
82.5°	69.9	70.9	68.5	67.8	66.8
85°	29.2	32.0	33.6	34.9	34.9
87.5°	5.7	8.8	7.8	9.0	9.0
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)