

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: P845053

Luminaire Tested: **SQ4P-PC3-150U-075D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845053
REPORT IS A COMBINATION OF REPORTS P700140 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-150U-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

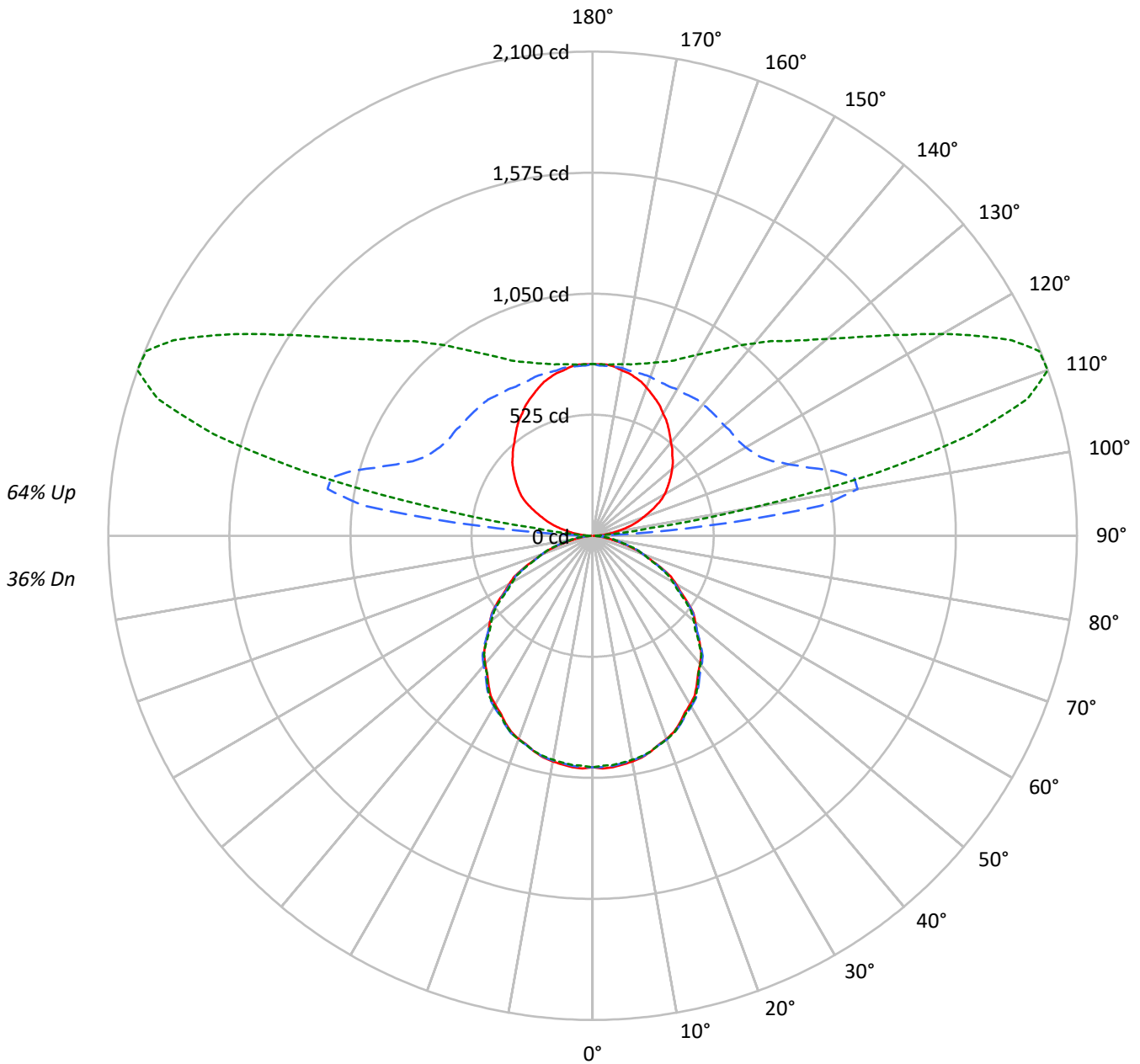
Lumens per Lamp: N/A
Luminaire Lumens: 7574.9 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 68.6
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36				36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31				31
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31	26				26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22				22
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19				19
5	66	54	47	41	59	50	43	38	41	35	31	32	28	25	24	22	20	16				16
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	22	19	17	14				14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	20	20	17	15	12				12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11				11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10				10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9				9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9265	9265	9265
5°	9336	9274	9241
10°	9313	9269	9243
15°	9264	9264	9256
20°	9204	9230	9230
25°	9117	9181	9154
30°	9004	9114	9075
35°	8871	9007	8944
40°	8723	8847	8760
45°	8566	8627	8493
50°	8342	8342	8209
55°	8078	7972	7853
60°	7687	7532	7412
65°	7104	6962	6901
70°	6223	6269	6248
75°	5005	5536	5572
80°	3560	4692	4745
85°	2181	3938	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.3
10°-20°	272.7	3.6
20°-30°	413.0	5.5
30°-40°	495.2	6.5
40°-50°	504.9	6.7
50°-60°	440.8	5.8
60°-70°	315.5	4.2
70°-80°	162.5	2.1
80°-90°	42.9	0.6
90°-100°	296.3	3.9
100°-110°	1031.0	13.6
110°-120°	998.8	13.2
120°-130°	783.5	10.3
130°-140°	620.1	8.2
140°-150°	478.6	6.3
150°-160°	343.1	4.5
160°-170°	209.8	2.8
170°-180°	71.0	0.9
0°-30°	780.8	10.3
0°-40°	1276.0	16.8
0°-60°	2221.7	29.3
0°-90°	2742.7	36.2
90°-120°	2326.1	30.7
90°-150°	4208.3	55.6
90°-180°	4832.0	63.8
0°-180°	7574.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1008	998	1001	999	998	96
15°	970	962	970	970	969	273
25°	896	889	902	899	899	412
35°	788	786	800	794	794	493
45°	656	655	661	653	651	505
55°	502	496	496	488	488	448
65°	325	318	319	316	316	322
75°	140	147	155	156	156	152
85°	21	31	37	38	37	28
90°	11	17	17	11	6	8
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°	1004.2	1004.2	1004.2	1004.2	1004.2
2.5°	1010.3	1001.4	1004.2	1002.0	998.3
5°	1008.1	997.9	1001.4	998.6	997.8
7.5°	1000.7	990.8	995.4	993.4	992.5
10°	994.1	984.0	989.4	987.5	986.6
12.5°	985.2	975.8	981.9	980.2	979.8
15°	969.9	961.7	969.9	969.9	969.0
17.5°	950.7	943.3	951.9	952.6	951.9
20°	937.4	929.2	940.1	939.2	940.1
22.5°	921.0	914.3	925.9	923.6	924.5
25°	895.6	889.1	901.9	899.2	899.2
27.5°	865.4	860.7	874.8	871.8	871.8
30°	845.2	840.7	855.5	851.8	851.8
32.5°	822.9	819.9	834.0	829.5	829.5
35°	787.6	785.7	799.7	794.1	794.1
37.5°	751.1	749.5	762.2	755.4	753.2
40°	724.3	723.5	734.6	727.3	727.3
42.5°	697.5	696.6	706.4	697.5	697.5
45°	656.5	654.6	661.2	652.7	650.9
47.5°	611.7	609.9	613.9	604.7	603.8
50°	581.2	579.3	581.2	572.7	571.9
52.5°	550.0	546.6	546.9	538.6	538.4
55°	502.2	495.8	495.6	488.2	488.2
57.5°	451.5	443.2	444.0	437.6	436.6
60°	416.6	407.5	408.2	402.6	401.7
62.5°	382.3	371.9	374.0	367.7	367.6
65°	325.4	318.2	318.9	316.1	316.1
67.5°	270.8	264.0	268.9	266.8	266.6
70°	230.7	226.0	232.4	232.4	231.6
72.5°	193.5	193.3	201.2	201.2	201.8
75°	140.4	146.8	155.3	156.3	156.3
77.5°	93.8	105.0	114.4	114.7	114.6
80°	67.0	79.7	88.3	90.3	89.3
82.5°	45.3	58.8	66.1	67.8	67.0
85°	20.6	31.4	37.2	38.2	37.2
87.5°	5.9	12.5	14.9	14.9	13.4
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)