

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: P845208

Luminaire Tested: **SQ4P-PR1-125U-075D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845208  
REPORT IS A COMBINATION OF REPORTS P700120 AND P700247  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PR1-125U-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**

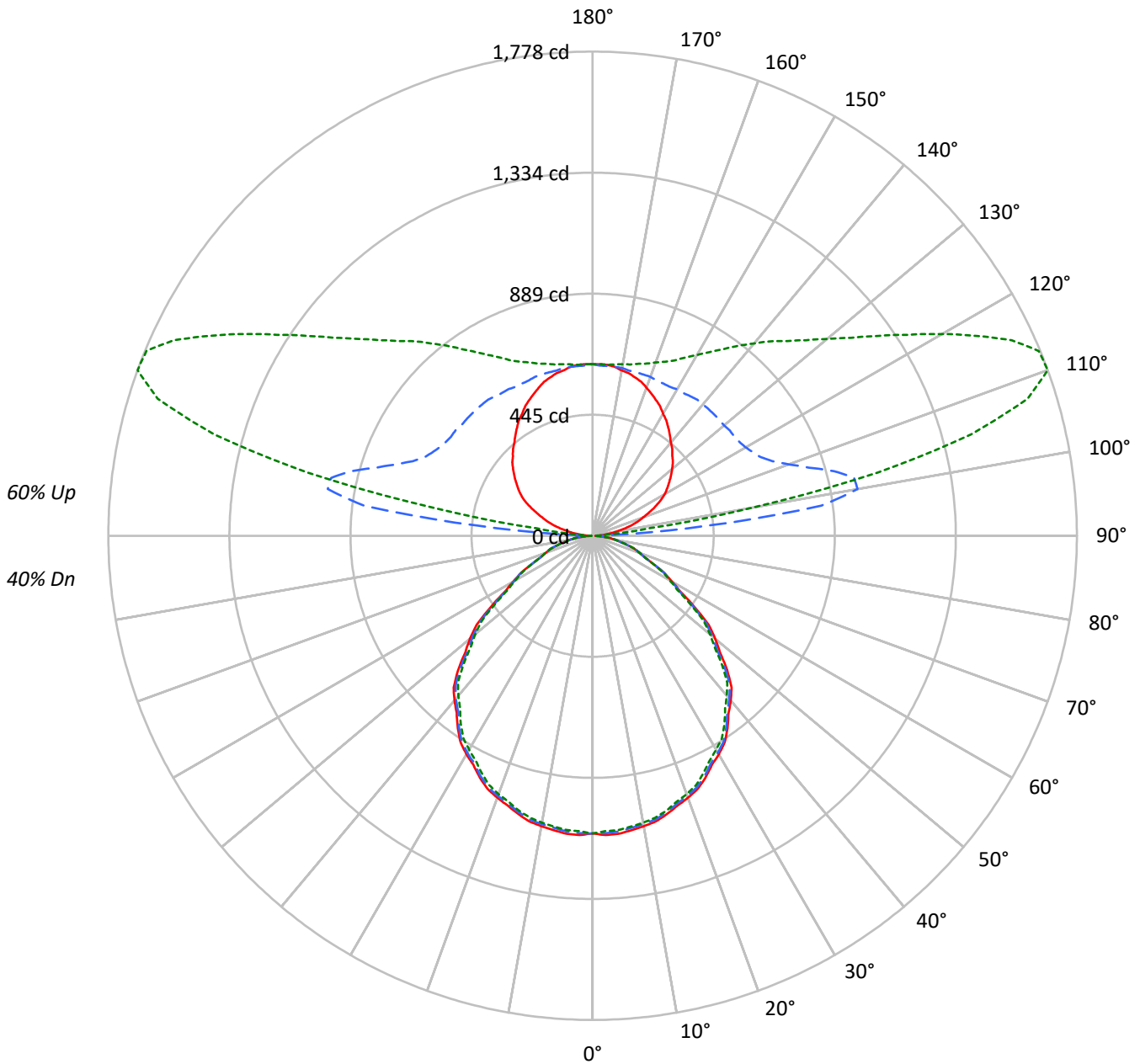
Lumens per Lamp: N/A  
Luminaire Lumens: 6824.5 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40																			
1	96	92	88	84	87	84	80	78	68	66	64	55	53	52	42	41	40	34																			
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29																			
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25																			
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	21																			
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19																			
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	22	20	17																			
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	17	15																			
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16	13																			
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12																			
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	17	15	13	11																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10085	10085	10085
5°	10176	10099	10046
10°	10143	10074	10021
15°	10100	10037	9981
20°	10049	9983	9911
25°	9977	9911	9796
30°	9869	9800	9661
35°	9725	9640	9503
40°	9501	9400	9230
45°	9117	8956	8771
50°	8433	8230	8068
55°	7359	7195	7044
60°	6204	6152	6028
65°	5366	5386	5344
70°	4926	4950	4950
75°	4734	4734	4766
80°	4447	4500	4447
85°	3589	3991	3991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.4	1.5
10°-20°	295.8	4.3
20°-30°	446.1	6.5
30°-40°	531.5	7.8
40°-50°	524.0	7.7
50°-60°	400.5	5.9
60°-70°	247.8	3.6
70°-80°	140.8	2.1
80°-90°	44.3	0.6
90°-100°	250.8	3.7
100°-110°	872.7	12.8
110°-120°	845.4	12.4
120°-130°	663.2	9.7
130°-140°	524.9	7.7
140°-150°	405.1	5.9
150°-160°	290.4	4.3
160°-170°	177.6	2.6
170°-180°	60.1	0.9
0°-30°	845.3	12.4
0°-40°	1376.8	20.2
0°-60°	2301.4	33.7
0°-90°	2734.3	40.1
90°-120°	1969.0	28.9
90°-150°	3562.1	52.2
90°-180°	4090.0	59.9
0°-180°	6824.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1099	1087	1090	1086	1085	104
15°	1057	1046	1051	1047	1045	298
25°	980	968	974	963	962	451
35°	863	853	856	845	844	539
45°	699	690	686	674	672	535
55°	458	450	447	440	438	410
65°	246	244	247	245	245	249
75°	133	133	133	134	134	140
85°	34	36	38	38	38	39
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°	1093.1	1093.1	1093.1	1093.1	1093.1
2.5°	1100.0	1090.4	1093.1	1090.9	1085.6
5°	1098.8	1086.8	1090.4	1086.4	1084.7
7.5°	1090.4	1078.5	1082.1	1078.2	1077.2
10°	1082.7	1071.7	1075.3	1071.5	1069.6
12.5°	1074.5	1062.8	1067.0	1062.5	1060.6
15°	1057.4	1046.4	1050.8	1047.1	1045.0
17.5°	1038.5	1026.7	1031.3	1026.9	1024.5
20°	1023.5	1012.5	1016.8	1010.3	1009.4
22.5°	1007.0	995.9	1000.3	991.5	991.4
25°	980.1	968.2	973.6	963.2	962.3
27.5°	948.3	937.3	941.7	931.2	930.2
30°	926.4	915.4	919.9	908.6	906.8
32.5°	901.6	891.3	895.1	883.8	882.6
35°	863.4	853.3	855.9	844.6	843.7
37.5°	819.9	810.7	812.2	799.7	798.9
40°	788.9	779.9	780.5	767.4	766.4
42.5°	755.2	746.0	745.1	732.0	731.1
45°	698.7	689.5	686.4	674.1	672.2
47.5°	634.3	625.0	619.3	609.2	608.0
50°	587.5	578.3	573.4	564.9	562.1
52.5°	537.1	527.8	523.8	515.9	513.2
55°	457.5	450.2	447.3	439.7	437.9
57.5°	382.1	377.2	376.2	368.9	368.1
60°	336.2	333.4	333.4	326.7	326.7
62.5°	297.0	294.9	296.3	292.0	291.3
65°	245.8	243.9	246.7	244.8	244.8
67.5°	205.3	205.3	206.9	206.1	206.1
70°	182.6	182.6	183.5	183.5	183.5
72.5°	162.3	161.6	164.1	164.0	163.3
75°	132.8	132.8	132.8	133.7	133.7
77.5°	103.4	103.6	104.4	104.2	103.4
80°	83.7	84.7	84.7	83.7	83.7
82.5°	64.2	65.1	65.1	64.9	64.2
85°	33.9	35.7	37.7	37.7	37.7
87.5°	9.7	12.7	15.1	15.1	14.2
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)