

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: P845091

Luminaire Tested: **SQ4P-PP3-075U-100D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845091  
REPORT IS A COMBINATION OF REPORTS P700229 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-075U-100D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

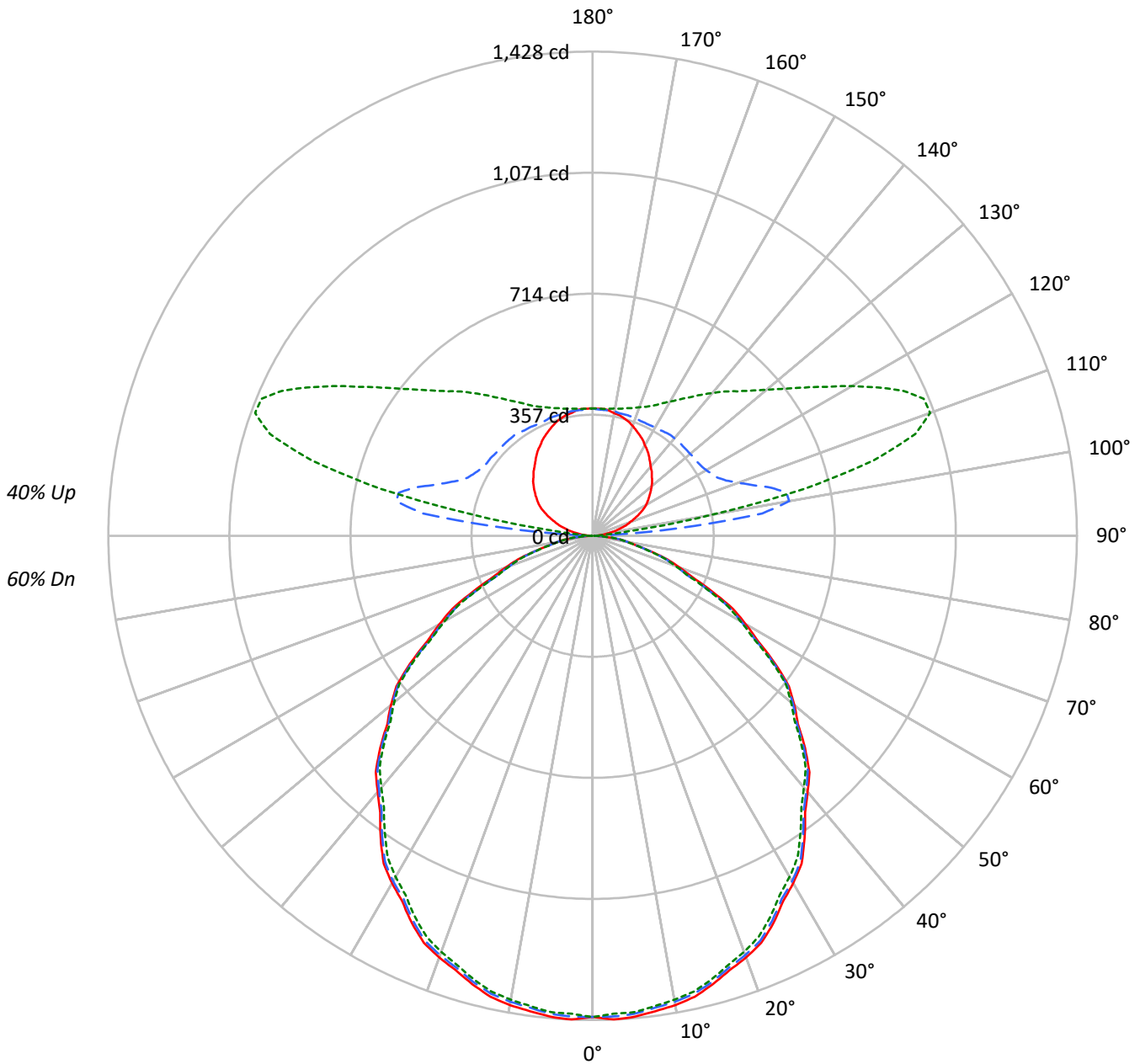
Lumens per Lamp: N/A  
Luminaire Lumens: 6069.5 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 53.9  
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60																			
1	100	96	92	89	94	90	86	83	78	76	74	68	66	64	58	57	56	51																			
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47	43																			
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40	37																			
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	41	38	35	32																			
5	70	59	50	44	65	55	48	42	49	43	38	43	38	34	37	33	30	27																			
6	65	53	44	39	60	50	42	37	44	38	33	38	34	30	33	30	27	24																			
7	60	48	40	34	56	45	38	32	40	34	30	35	30	27	31	27	24	21																			
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19																			
9	52	40	32	27	49	37	31	26	33	28	24	30	25	21	26	22	19	17																			
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16																			

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

	0°	45°	90°
0°	13093	13093	13093
5°	13188	13108	13062
10°	13167	13074	13016
15°	13080	13008	12937
20°	12993	12919	12822
25°	12838	12750	12624
30°	12601	12535	12375
35°	12271	12188	12032
40°	11878	11803	11669
45°	11555	11474	11359
50°	11138	11068	10960
55°	10562	10423	10345
60°	9616	9341	9294
65°	8473	8117	8091
70°	7310	7011	7011
75°	6299	6206	6114
80°	5552	5616	5478
85°	4340	4742	4742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	2.2
10°-20°	383.2	6.3
20°-30°	573.9	9.5
30°-40°	673.2	11.1
40°-50°	675.2	11.1
50°-60°	576.1	9.5
60°-70°	375.7	6.2
70°-80°	188.5	3.1
80°-90°	53.1	0.9
90°-100°	149.4	2.5
100°-110°	519.9	8.6
110°-120°	503.6	8.3
120°-130°	395.1	6.5
130°-140°	312.7	5.2
140°-150°	241.3	4.0
150°-160°	173.0	2.8
160°-170°	105.8	1.7
170°-180°	35.8	0.6
0°-30°	1091.3	18.0
0°-40°	1764.4	29.1
0°-60°	3015.7	49.7
0°-90°	3633.0	59.9
90°-120°	1172.9	19.3
90°-150°	2122.0	35.0
90°-180°	2437.0	40.2
0°-180°	6069.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1424	1411	1415	1410	1410	135
15°	1369	1356	1362	1357	1354	386
25°	1261	1246	1252	1241	1240	580
35°	1090	1079	1082	1070	1068	681
45°	886	879	879	871	871	682
55°	657	654	648	644	643	584
65°	388	381	372	370	371	387
75°	177	177	174	173	172	192
85°	41	45	45	45	45	48
90°	6	8	8	6	3	5
95°	25	87	252	64	39	27
105°	87	123	546	922	857	91
115°	151	182	406	857	1011	149
125°	205	252	378	639	762	183
135°	246	277	375	532	602	191
145°	289	308	373	460	499	181
155°	328	339	367	409	423	151
165°	359	362	370	387	390	101
175°	375	375	373	378	375	36
180°	375	375	375	375	375	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1427.9	1416.4	1419.1	1417.0	1411.2
5°	1424.0	1410.8	1415.3	1410.4	1410.4
7.5°	1414.4	1399.8	1404.4	1399.4	1399.2
10°	1405.4	1390.8	1395.5	1390.4	1389.3
12.5°	1392.5	1378.0	1383.5	1377.5	1377.3
15°	1369.4	1355.9	1361.9	1356.8	1354.4
17.5°	1343.2	1328.7	1335.8	1328.9	1327.8
20°	1323.3	1308.7	1315.8	1305.9	1305.9
22.5°	1299.5	1284.9	1293.0	1279.9	1279.9
25°	1261.1	1246.5	1252.5	1241.2	1240.1
27.5°	1215.6	1201.3	1207.5	1194.7	1194.4
30°	1182.8	1169.4	1176.6	1162.9	1161.6
32.5°	1147.0	1134.6	1139.7	1126.1	1124.7
35°	1089.5	1078.6	1082.1	1069.7	1068.3
37.5°	1029.0	1017.9	1021.8	1011.0	1010.6
40°	986.2	978.9	980.0	971.2	968.9
42.5°	946.5	938.1	939.2	930.4	930.0
45°	885.6	879.4	879.4	870.6	870.6
47.5°	820.9	816.1	814.9	807.5	807.3
50°	776.0	772.4	771.1	764.9	763.6
52.5°	729.3	727.6	723.3	718.2	718.0
55°	656.6	654.2	648.0	644.1	643.1
57.5°	577.9	573.0	565.9	560.5	561.4
60°	521.1	516.1	506.2	503.7	503.7
62.5°	466.4	460.6	450.5	447.1	449.1
65°	388.1	380.8	371.8	369.5	370.6
67.5°	317.0	310.3	300.6	300.6	299.8
70°	271.0	267.4	259.9	259.9	259.9
72.5°	230.3	228.6	223.3	223.0	222.1
75°	176.7	176.7	174.1	172.9	171.5
77.5°	132.3	132.8	131.7	130.3	128.0
80°	104.5	107.0	105.7	104.5	103.1
82.5°	78.7	81.0	80.8	78.7	78.3
85°	41.0	44.6	44.8	44.8	44.8
87.5°	11.0	14.8	15.9	15.9	17.0
90°	5.6	8.4	8.4	5.6	2.8
92.5°	14.1	42.1	39.2	16.8	14.1
95°	25.2	86.8	252.2	64.4	39.2
97.5°	39.2	98.1	504.3	229.8	123.3
100°	53.2	103.7	588.3	552.0	355.8
102.5°	70.1	112.0	585.6	776.1	638.8
105°	86.8	123.3	546.4	921.8	857.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	134.5	165.3	425.9	927.4	1056.3
115°	151.3	182.1	406.2	857.3	1011.4
117.5°	168.1	201.8	395.1	792.9	947.0
120°	182.1	218.5	386.7	731.3	882.5
122.5°	193.3	235.4	381.0	680.9	818.1
125°	204.6	252.2	378.2	638.8	762.1
127.5°	215.7	263.4	378.2	608.0	711.7
130°	227.0	269.0	375.4	577.2	669.6
132.5°	238.1	271.7	375.4	554.8	633.2
135°	246.5	277.3	375.4	532.3	602.4
137.5°	257.8	283.0	375.4	512.7	577.2
140°	266.2	291.4	375.4	493.1	549.2
142.5°	277.3	299.8	375.4	473.5	523.9
145°	288.6	308.2	372.6	459.5	498.7
147.5°	299.8	316.6	369.8	445.5	476.3
150°	308.2	325.0	369.8	431.4	456.7
152.5°	319.4	333.4	367.0	417.5	439.9
155°	327.8	339.0	367.0	409.0	423.1
157.5°	336.2	347.4	367.0	400.6	411.9
160°	344.6	353.0	369.8	395.1	403.4
162.5°	353.0	358.7	369.8	389.5	395.1
165°	358.7	361.5	369.8	386.7	389.5
167.5°	364.3	367.0	369.8	383.8	383.8
170°	367.0	369.8	372.6	381.0	381.0
172.5°	372.6	372.6	372.6	378.2	378.2
175°	375.4	375.4	372.6	378.2	375.4
177.5°	375.4	375.4	372.6	378.2	375.4
180°	375.4	375.4	375.4	375.4	375.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	103.7	137.3	495.9	986.2	997.5
110°	117.6	151.3	456.7	977.8	1059.1



(END OF REPORT)