

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: P844983

Luminaire Tested: **SQ4P-PC3-025U-100D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844983
REPORT IS A COMBINATION OF REPORTS P700169 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-025U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

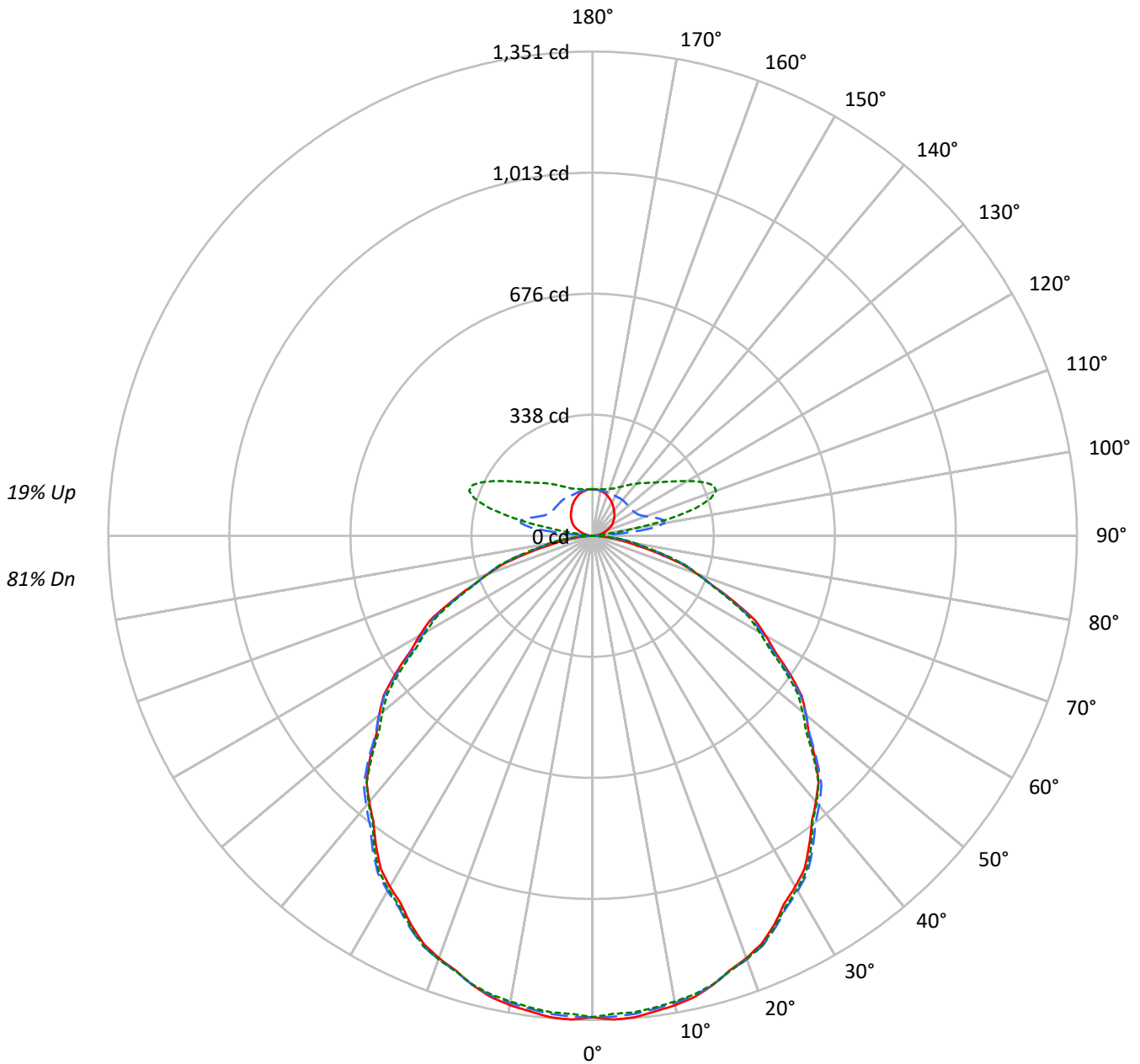
Lumens per Lamp: N/A
Luminaire Lumens: 4509.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 41.9
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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81																			
1	105	100	96	93	100	96	93	89	89	86	83	82	79	77	75	74	72	69																			
2	96	88	81	76	91	84	78	74	78	73	69	72	68	65	66	63	61	58																			
3	87	77	69	63	83	74	67	62	69	63	58	63	59	55	59	55	52	49																			
4	80	68	60	54	76	66	58	52	61	55	50	57	51	47	52	48	44	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	47	42	39	36																			
6	68	55	46	40	65	53	45	39	49	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	31	56	44	36	31	41	34	30	38	33	28	36	31	27	25																			
9	54	42	34	28	52	40	33	28	38	31	27	35	30	26	33	28	24	22																			
10	51	38	31	26	49	37	30	25	35	28	24	33	27	23	31	26	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12392	12392	12392
5°	12487	12406	12360
10°	12457	12398	12363
15°	12391	12391	12378
20°	12310	12346	12346
25°	12194	12281	12243
30°	12044	12190	12136
35°	11866	12047	11963
40°	11668	11833	11714
45°	11459	11539	11359
50°	11158	11158	10980
55°	10805	10663	10505
60°	10282	10077	9913
65°	9501	9315	9230
70°	8322	8387	8357
75°	6695	7408	7450
80°	4761	6275	6344
85°	2901	5261	5261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	2.8
10°-20°	364.8	8.1
20°-30°	552.5	12.3
30°-40°	662.3	14.7
40°-50°	675.3	15.0
50°-60°	589.5	13.1
60°-70°	422.0	9.4
70°-80°	217.4	4.8
80°-90°	55.3	1.2
90°-100°	51.7	1.1
100°-110°	179.8	4.0
110°-120°	174.2	3.9
120°-130°	136.6	3.0
130°-140°	108.2	2.4
140°-150°	83.5	1.9
150°-160°	59.8	1.3
160°-170°	36.6	0.8
170°-180°	12.4	0.3
0°-30°	1044.4	23.2
0°-40°	1706.7	37.9
0°-60°	2971.6	65.9
0°-90°	3666.3	81.3
90°-120°	405.7	9.0
90°-150°	734.0	16.3
90°-180°	843.0	18.7
0°-180°	4509.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1348	1335	1340	1336	1335	128
15°	1297	1286	1297	1297	1296	366
25°	1198	1189	1206	1203	1203	551
35°	1054	1051	1070	1062	1062	659
45°	878	876	884	873	871	676
55°	672	663	663	653	653	599
65°	435	426	427	423	423	430
75°	188	196	208	209	209	203
85°	27	42	50	51	50	37
90°	2	3	3	2	1	2
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



TEST NUMBER: P844983

CATALOG NUMBER: SQ4P-PC3-025U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1351.3	1339.5	1343.1	1340.1	1335.2
5°	1348.3	1334.8	1339.5	1335.7	1334.6
7.5°	1338.5	1325.1	1331.4	1328.8	1327.5
10°	1329.7	1316.1	1323.4	1320.8	1319.6
12.5°	1317.6	1305.2	1313.4	1310.9	1310.6
15°	1297.3	1286.3	1297.3	1297.3	1295.9
17.5°	1271.5	1261.7	1273.3	1274.1	1273.3
20°	1253.8	1242.8	1257.4	1256.1	1257.4
22.5°	1231.9	1222.9	1238.6	1235.3	1236.6
25°	1197.8	1189.2	1206.4	1202.7	1202.7
27.5°	1157.4	1151.2	1170.1	1166.1	1166.1
30°	1130.5	1124.5	1144.2	1139.2	1139.2
32.5°	1100.7	1096.6	1115.5	1109.5	1109.5
35°	1053.5	1050.9	1069.6	1062.1	1062.1
37.5°	1004.6	1002.5	1019.5	1010.4	1007.4
40°	968.8	967.7	982.5	972.6	972.6
42.5°	933.0	931.8	944.8	932.8	932.8
45°	878.2	875.5	884.4	873.0	870.6
47.5°	818.1	815.8	821.1	808.9	807.6
50°	777.4	774.8	777.4	766.0	765.0
52.5°	735.5	731.1	731.4	720.3	720.1
55°	671.7	663.1	662.9	653.1	653.1
57.5°	603.9	592.8	593.8	585.3	584.0
60°	557.2	545.0	546.1	538.5	537.2
62.5°	511.3	497.4	500.1	491.8	491.6
65°	435.2	425.5	426.7	422.8	422.8
67.5°	362.1	353.1	359.7	356.7	356.5
70°	308.5	302.3	310.9	310.9	309.8
72.5°	258.7	258.5	269.0	269.0	269.9
75°	187.8	196.3	207.8	209.0	209.0
77.5°	125.4	140.4	153.1	153.5	153.3
80°	89.6	106.6	118.1	120.7	119.4
82.5°	60.7	78.7	88.3	90.7	89.6
85°	27.4	42.1	49.7	51.1	49.7
87.5°	7.9	16.8	20.0	20.0	18.0
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)