

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: P845006

Luminaire Tested: **SQ4P-PC3-075U-100D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845006
REPORT IS A COMBINATION OF REPORTS P700225 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-075U-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

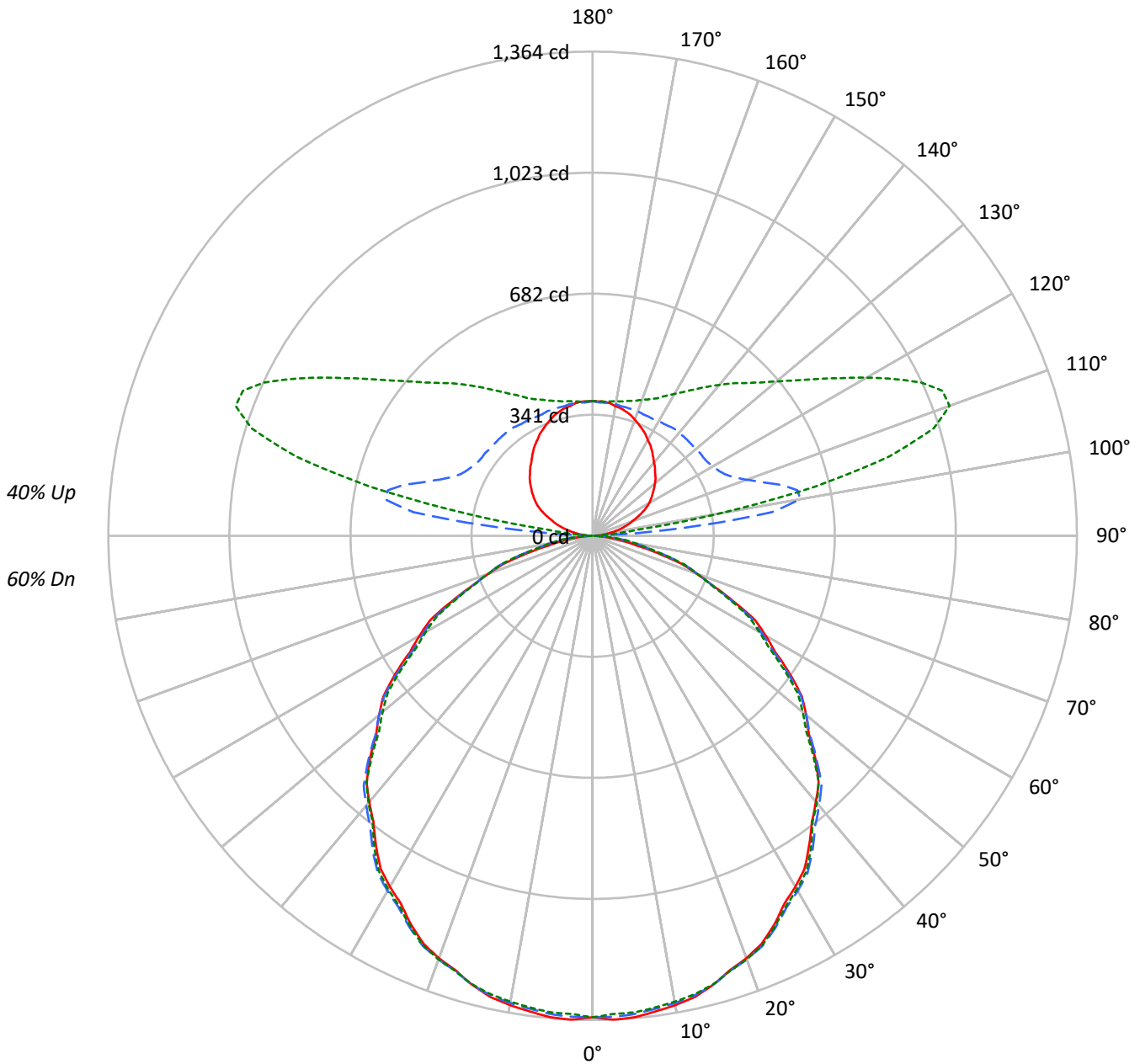
Lumens per Lamp: N/A
Luminaire Lumens: 6163.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 53.9
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

TEST NUMBER: P845006

CATALOG NUMBER: SQ4P-PC3-075U-100D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845006

CATALOG NUMBER: SQ4P-PC3-075U-100D-B35-1D-UNV

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60																			
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	55	51																			
2	91	84	77	72	85	78	73	68	69	64	61	59	56	54	51	49	47	43																			
3	83	74	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40	36																			
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34	31																			
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	33	30	27																			
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23																			
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21																			
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	18																			
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17																			
10	48	36	28	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12513	12513	12513
5°	12609	12528	12482
10°	12579	12520	12484
15°	12513	12513	12499
20°	12431	12466	12466
25°	12313	12401	12364
30°	12162	12309	12256
35°	11982	12164	12080
40°	11783	11950	11830
45°	11571	11652	11470
50°	11267	11267	11088
55°	10909	10768	10608
60°	10383	10175	10010
65°	9595	9407	9320
70°	8406	8468	8438
75°	6759	7479	7525
80°	4808	6339	6408
85°	2932	5314	5314



TEST NUMBER: P845006

CATALOG NUMBER: SQ4P-PC3-075U-100D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.1
10°-20°	368.4	6.0
20°-30°	557.9	9.1
30°-40°	668.8	10.9
40°-50°	682.0	11.1
50°-60°	595.3	9.7
60°-70°	426.2	6.9
70°-80°	219.5	3.6
80°-90°	56.5	0.9
90°-100°	150.9	2.4
100°-110°	525.0	8.5
110°-120°	508.6	8.3
120°-130°	398.9	6.5
130°-140°	315.7	5.1
140°-150°	243.7	4.0
150°-160°	174.7	2.8
160°-170°	106.8	1.7
170°-180°	36.1	0.6
0°-30°	1054.6	17.1
0°-40°	1723.4	28.0
0°-60°	3000.7	48.7
0°-90°	3702.9	60.1
90°-120°	1184.4	19.2
90°-150°	2142.8	34.8
90°-180°	2460.0	39.9
0°-180°	6163.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1362	1348	1353	1349	1348	129
15°	1310	1299	1310	1310	1309	369
25°	1210	1201	1218	1214	1214	557
35°	1064	1061	1080	1072	1072	665
45°	887	884	893	882	879	683
55°	678	670	669	660	660	605
65°	440	430	431	427	427	435
75°	190	198	210	211	211	205
85°	28	42	50	52	50	38
90°	6	8	8	6	3	5
95°	25	88	255	65	40	27
105°	88	124	552	931	866	92
115°	153	184	410	866	1021	151
125°	207	255	382	645	770	185
135°	249	280	379	538	608	193
145°	291	311	376	464	504	182
155°	331	342	371	413	427	153
165°	362	365	373	390	393	102
175°	379	379	376	382	379	36
180°	379	379	379	379	379	



TEST NUMBER: P845006

CATALOG NUMBER: SQ4P-PC3-075U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1364.5	1352.7	1356.3	1353.3	1348.3
5°	1361.5	1347.9	1352.7	1348.8	1347.7
7.5°	1351.6	1338.1	1344.5	1341.8	1340.5
10°	1342.7	1329.0	1336.4	1333.8	1332.5
12.5°	1330.6	1318.0	1326.3	1323.8	1323.4
15°	1310.0	1298.9	1310.0	1310.0	1308.6
17.5°	1284.0	1274.1	1285.7	1286.6	1285.7
20°	1266.1	1255.0	1269.7	1268.4	1269.7
22.5°	1244.0	1234.9	1250.7	1247.4	1248.7
25°	1209.5	1200.9	1218.2	1214.5	1214.5
27.5°	1168.8	1162.5	1181.6	1177.5	1177.5
30°	1141.6	1135.5	1155.4	1150.4	1150.4
32.5°	1111.5	1107.3	1126.4	1120.4	1120.4
35°	1063.8	1061.3	1080.0	1072.5	1072.5
37.5°	1014.5	1012.3	1029.5	1020.4	1017.3
40°	978.3	977.2	992.2	982.2	982.2
42.5°	942.2	940.9	954.1	942.0	942.0
45°	886.8	884.1	893.0	881.6	879.1
47.5°	826.1	823.8	829.1	816.8	815.5
50°	785.0	782.4	785.0	773.6	772.5
52.5°	742.7	738.2	738.6	727.4	727.2
55°	678.2	669.6	669.4	659.5	659.5
57.5°	609.8	598.6	599.7	591.1	589.7
60°	562.7	550.3	551.4	543.8	542.5
62.5°	516.3	502.3	505.0	496.6	496.4
65°	439.5	429.7	430.9	426.9	426.9
67.5°	365.7	356.6	363.2	360.2	360.0
70°	311.6	305.2	313.9	313.9	312.8
72.5°	261.3	261.1	271.6	271.6	272.5
75°	189.6	198.3	209.8	211.1	211.1
77.5°	126.6	141.8	154.6	155.0	154.8
80°	90.5	107.6	119.3	121.9	120.6
82.5°	61.3	79.5	89.1	91.6	90.5
85°	27.7	42.5	50.2	51.6	50.2
87.5°	8.0	16.9	20.2	20.2	18.2
90°	5.7	8.5	8.5	5.7	2.8
92.5°	14.2	42.5	39.6	16.9	14.2
95°	25.4	87.7	254.6	65.1	39.6
97.5°	39.6	99.0	509.2	232.0	124.5
100°	53.7	104.7	594.1	557.4	359.3
102.5°	70.8	113.1	591.3	783.7	645.1
105°	87.7	124.5	551.7	930.8	865.7



TEST NUMBER: P845006

CATALOG NUMBER: SQ4P-PC3-075U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.8	166.9	430.1	936.5	1066.6
115°	152.8	183.9	410.2	865.7	1021.3
117.5°	169.8	203.7	399.0	800.7	956.3
120°	183.9	220.7	390.4	738.4	891.2
122.5°	195.2	237.7	384.8	687.5	826.1
125°	206.6	254.6	381.9	645.1	769.5
127.5°	217.8	266.0	381.9	614.0	718.7
130°	229.2	271.6	379.1	582.8	676.2
132.5°	240.4	274.4	379.1	560.2	639.4
135°	248.9	280.1	379.1	537.5	608.3
137.5°	260.3	285.7	379.1	517.8	582.8
140°	268.8	294.3	379.1	497.9	554.6
142.5°	280.1	302.8	379.1	478.1	529.0
145°	291.4	311.2	376.3	464.0	503.6
147.5°	302.8	319.7	373.4	449.8	481.0
150°	311.2	328.2	373.4	435.7	461.2
152.5°	322.5	336.6	370.6	421.6	444.2
155°	331.0	342.3	370.6	413.1	427.2
157.5°	339.5	350.8	370.6	404.5	415.9
160°	348.0	356.5	373.4	399.0	407.4
162.5°	356.5	362.2	373.4	393.3	399.0
165°	362.2	365.0	373.4	390.4	393.3
167.5°	367.8	370.6	373.4	387.6	387.6
170°	370.6	373.4	376.3	384.8	384.8
172.5°	376.3	376.3	376.3	381.9	381.9
175°	379.1	379.1	376.3	381.9	379.1
177.5°	379.1	379.1	376.3	381.9	379.1
180°	379.1	379.1	379.1	379.1	379.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	104.7	138.7	500.7	995.9	1007.2
110°	118.8	152.8	461.2	987.4	1069.5



(END OF REPORT)