

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: P845024

Luminaire Tested: **SQ4P-PC3-100U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845024
REPORT IS A COMBINATION OF REPORTS P700083 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-100U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

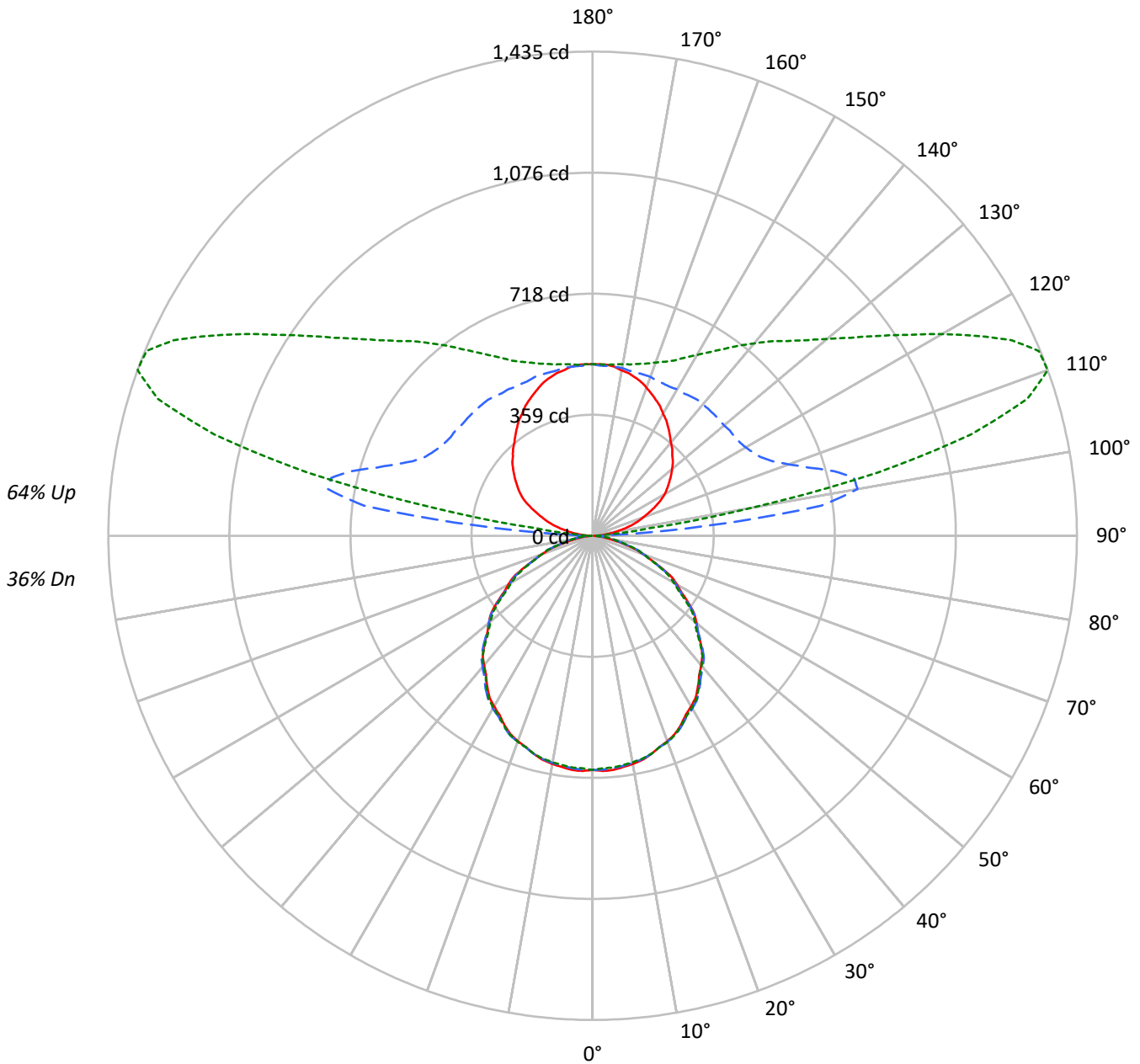
Lumens per Lamp: N/A
Luminaire Lumens: 5195.6 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 42.8
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	
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	44	44	44	36				
1	95	91	87	83	86	82	79	76	66	64	62	52	51	49	39	38	37	31				
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	32	31	26				
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22				
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	25	23	19				
5	66	55	47	41	59	50	43	38	41	35	32	32	28	26	24	22	20	16				
6	61	49	41	35	55	45	38	33	36	31	27	29	25	22	22	19	17	14				
7	56	44	36	31	51	40	33	28	33	28	24	26	22	20	20	17	15	13				
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11				
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10				
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6400	6400	6400
5°	6450	6407	6384
10°	6434	6403	6386
15°	6400	6400	6394
20°	6358	6377	6377
25°	6297	6344	6324
30°	6221	6296	6269
35°	6129	6223	6179
40°	6027	6112	6051
45°	5918	5960	5868
50°	5763	5763	5671
55°	5580	5508	5426
60°	5311	5204	5121
65°	4908	4812	4768
70°	4297	4332	4316
75°	3458	3825	3846
80°	2460	3246	3273
85°	1503	2721	2721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.3
10°-20°	188.4	3.6
20°-30°	285.4	5.5
30°-40°	342.1	6.6
40°-50°	348.8	6.7
50°-60°	304.5	5.9
60°-70°	218.0	4.2
70°-80°	112.3	2.2
80°-90°	29.6	0.6
90°-100°	202.4	3.9
100°-110°	704.3	13.6
110°-120°	682.2	13.1
120°-130°	535.2	10.3
130°-140°	423.6	8.2
140°-150°	326.9	6.3
150°-160°	234.3	4.5
160°-170°	143.3	2.8
170°-180°	48.5	0.9
0°-30°	539.4	10.4
0°-40°	881.5	17.0
0°-60°	1534.9	29.5
0°-90°	1894.8	36.5
90°-120°	1588.9	30.6
90°-150°	2874.6	55.3
90°-180°	3301.0	63.5
0°-180°	5195.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	696	689	692	690	689	66
15°	670	664	670	670	669	189
25°	619	614	623	621	621	285
35°	544	543	552	549	549	340
45°	454	452	457	451	450	349
55°	347	342	342	337	337	309
65°	225	220	220	218	218	222
75°	97	102	107	108	108	105
85°	14	22	26	26	26	19
90°	8	11	11	8	4	5
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.7	693.7	693.7	693.7	693.7
2.5°	697.9	691.8	693.7	692.2	689.7
5°	696.4	689.4	691.8	689.9	689.3
7.5°	691.4	684.4	687.6	686.4	685.7
10°	686.8	679.8	683.5	682.3	681.6
12.5°	680.6	674.1	678.3	677.2	676.9
15°	670.0	664.4	670.0	670.0	669.4
17.5°	656.8	651.6	657.7	658.1	657.7
20°	647.6	641.9	649.5	648.8	649.5
22.5°	636.3	631.7	639.7	638.0	638.7
25°	618.6	614.2	623.2	621.2	621.2
27.5°	597.9	594.7	604.4	602.3	602.3
30°	583.9	580.8	591.0	588.4	588.4
32.5°	568.5	566.4	576.2	573.0	573.0
35°	544.2	542.8	552.5	548.6	548.6
37.5°	518.9	517.8	526.6	521.9	520.3
40°	500.4	499.9	507.5	502.4	502.4
42.5°	481.9	481.3	488.0	481.8	481.8
45°	453.6	452.2	456.8	450.9	449.7
47.5°	422.5	421.4	424.1	417.8	417.2
50°	401.5	400.2	401.5	395.6	395.1
52.5°	380.0	377.6	377.8	372.1	372.0
55°	346.9	342.5	342.4	337.3	337.3
57.5°	312.0	306.2	306.8	302.3	301.6
60°	287.8	281.5	282.0	278.2	277.5
62.5°	264.1	256.9	258.3	254.0	253.9
65°	224.8	219.8	220.4	218.4	218.4
67.5°	187.0	182.4	185.8	184.3	184.2
70°	159.3	156.2	160.6	160.6	160.0
72.5°	133.7	133.6	139.0	139.0	139.4
75°	97.0	101.5	107.3	107.9	107.9
77.5°	64.8	72.5	79.1	79.3	79.2
80°	46.3	55.0	61.1	62.3	61.6
82.5°	31.3	40.6	45.6	46.9	46.3
85°	14.2	21.7	25.7	26.3	25.7
87.5°	4.1	8.6	10.3	10.3	9.3
90°	7.6	11.4	11.4	7.6	3.8
92.5°	19.0	57.0	53.1	22.8	19.0
95°	34.2	117.6	341.6	87.3	53.1
97.5°	53.1	132.9	683.2	311.3	167.0
100°	72.1	140.4	797.0	747.7	482.0
102.5°	94.9	151.8	793.2	1051.4	865.3
105°	117.6	167.0	740.1	1248.7	1161.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)