

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: P844988

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844988
REPORT IS A COMBINATION OF REPORTS P700195 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-050U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

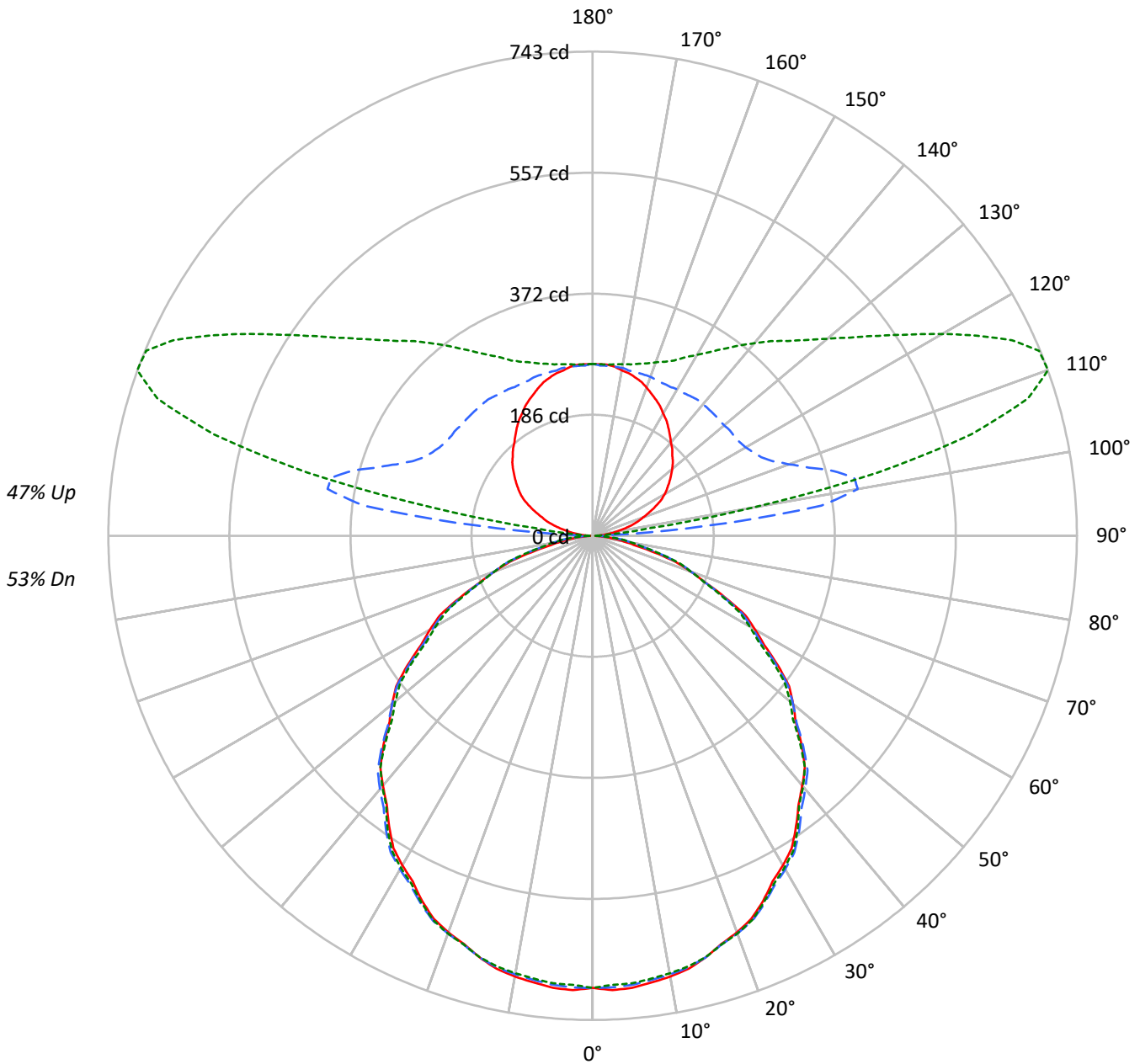
Lumens per Lamp: N/A
Luminaire Lumens: 3604.4 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 29.8
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53								
1	98	94	90	87	91	87	84	81	74	72	70	63	61	59	52	51	50	44								
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42	37								
3	82	72	65	59	75	67	61	55	58	53	49	49	45	42	40	38	35	31								
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	31	27								
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	27	23								
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23	20								
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	18								
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16								
9	50	38	31	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15								
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15	13								

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	1.8
10°-20°	188.4	5.2
20°-30°	285.4	7.9
30°-40°	342.1	9.5
40°-50°	348.8	9.7
50°-60°	304.5	8.4
60°-70°	218.0	6.0
70°-80°	112.3	3.1
80°-90°	29.0	0.8
90°-100°	104.9	2.9
100°-110°	364.9	10.1
110°-120°	353.5	9.8
120°-130°	277.3	7.7
130°-140°	219.5	6.1
140°-150°	169.4	4.7
150°-160°	121.4	3.4
160°-170°	74.3	2.1
170°-180°	25.1	0.7
0°-30°	539.4	15.0
0°-40°	881.5	24.5
0°-60°	1534.9	42.6
0°-90°	1894.2	52.6
90°-120°	823.3	22.8
90°-150°	1489.4	41.3
90°-180°	1710.0	47.4
0°-180°	3604.4	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°	4	6	6	4	2	3
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



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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°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)