

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: P844979

Luminaire Tested: **SQ4P-PC3-025U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844979
REPORT IS A COMBINATION OF REPORTS P700168 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-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

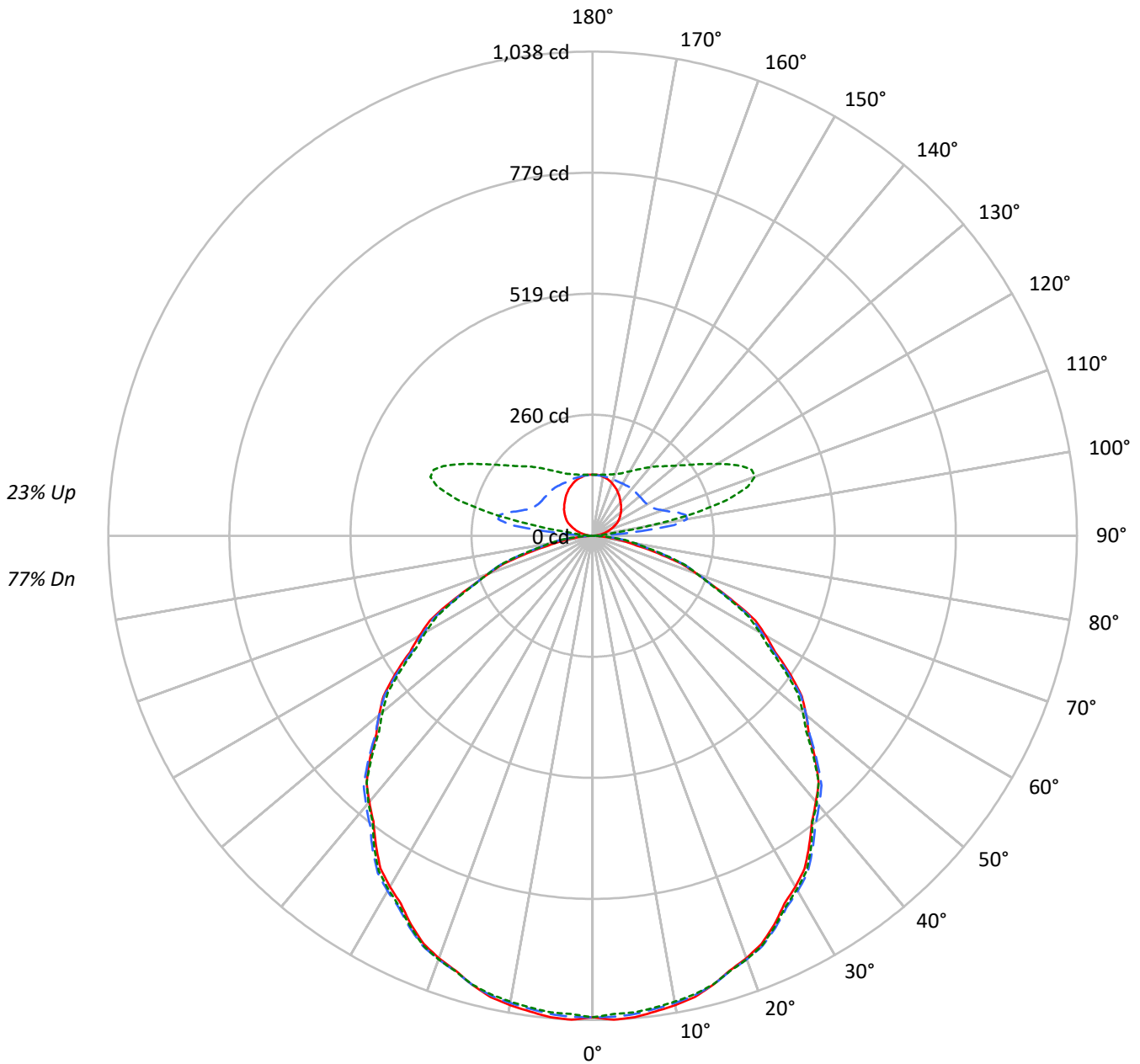
Lumens per Lamp: N/A
Luminaire Lumens: 3668.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 32.6
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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77				77															
1	104	99	95	92	99	95	91	88	86	84	81	79	77	75	72	70	68				65																
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58				54																
3	86	76	69	63	82	73	66	61	67	61	57	61	57	53	56	52	49				46																
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	50	46	42				39																
5	73	60	52	46	69	58	50	44	53	47	42	49	43	39	45	40	37				34																
6	67	54	46	40	64	52	44	39	48	41	36	44	39	34	41	36	32				30																
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29				26																
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26				24																
9	54	41	33	28	51	39	32	27	37	30	26	34	28	25	31	27	23				21																
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	24	21				19																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9523	9523	9523
5°	9597	9534	9499
10°	9573	9528	9501
15°	9523	9523	9513
20°	9460	9487	9487
25°	9371	9438	9409
30°	9256	9368	9327
35°	9119	9258	9193
40°	8967	9094	9003
45°	8805	8867	8729
50°	8575	8575	8437
55°	8303	8194	8072
60°	7901	7743	7619
65°	7302	7156	7093
70°	6396	6444	6423
75°	5144	5689	5729
80°	3661	4824	4877
85°	2234	4054	4054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	2.7
10°-20°	280.4	7.6
20°-30°	424.6	11.6
30°-40°	509.0	13.9
40°-50°	519.0	14.1
50°-60°	453.0	12.3
60°-70°	324.3	8.8
70°-80°	167.1	4.6
80°-90°	42.6	1.2
90°-100°	52.2	1.4
100°-110°	181.6	5.0
110°-120°	175.9	4.8
120°-130°	138.0	3.8
130°-140°	109.2	3.0
140°-150°	84.3	2.3
150°-160°	60.4	1.6
160°-170°	37.0	1.0
170°-180°	12.5	0.3
0°-30°	802.6	21.9
0°-40°	1311.6	35.8
0°-60°	2283.6	62.2
0°-90°	2817.6	76.8
90°-120°	409.7	11.2
90°-150°	741.2	20.2
90°-180°	851.0	23.2
0°-180°	3668.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1036	1026	1029	1026	1026	98
15°	997	988	997	997	996	281
25°	920	914	927	924	924	424
35°	810	808	822	816	816	506
45°	675	673	680	671	669	519
55°	516	510	509	502	502	460
65°	334	327	328	325	325	331
75°	144	151	160	161	161	156
85°	21	32	38	39	38	29
90°	2	3	3	2	1	2
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1038.5	1029.4	1032.2	1029.9	1026.1
5°	1036.2	1025.7	1029.4	1026.4	1025.6
7.5°	1028.6	1018.4	1023.2	1021.1	1020.2
10°	1021.8	1011.4	1017.0	1015.1	1014.1
12.5°	1012.6	1003.0	1009.3	1007.5	1007.1
15°	997.0	988.5	997.0	997.0	996.0
17.5°	977.2	969.6	978.5	979.2	978.5
20°	963.5	955.1	966.3	965.4	966.3
22.5°	946.7	939.8	951.8	949.3	950.3
25°	920.5	913.9	927.1	924.3	924.3
27.5°	889.5	884.7	899.2	896.1	896.1
30°	868.8	864.2	879.3	875.5	875.5
32.5°	845.9	842.7	857.2	852.6	852.6
35°	809.6	807.6	822.0	816.2	816.2
37.5°	772.1	770.4	783.4	776.5	774.2
40°	744.5	743.7	755.1	747.5	747.5
42.5°	717.0	716.0	726.1	716.9	716.9
45°	674.8	672.9	679.6	670.9	669.0
47.5°	628.7	626.9	631.0	621.6	620.6
50°	597.4	595.5	597.4	588.7	587.8
52.5°	565.3	561.8	562.2	553.6	553.4
55°	516.2	509.6	509.4	501.8	501.8
57.5°	464.1	455.5	456.4	449.7	448.8
60°	428.2	418.8	419.6	413.8	412.9
62.5°	393.0	382.2	384.4	377.9	377.8
65°	334.5	327.0	327.8	324.9	324.9
67.5°	278.3	271.4	276.4	274.2	274.0
70°	237.1	232.3	238.9	238.9	238.1
72.5°	198.8	198.6	206.8	206.8	207.5
75°	144.3	150.9	159.6	160.7	160.7
77.5°	96.4	107.9	117.6	117.9	117.8
80°	68.9	81.9	90.8	92.8	91.8
82.5°	46.6	60.5	67.9	69.7	68.9
85°	21.1	32.3	38.3	39.2	38.3
87.5°	6.1	12.8	15.4	15.4	13.8
90°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)