

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: P845027

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

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845027
REPORT IS A COMBINATION OF REPORTS P700084 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-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

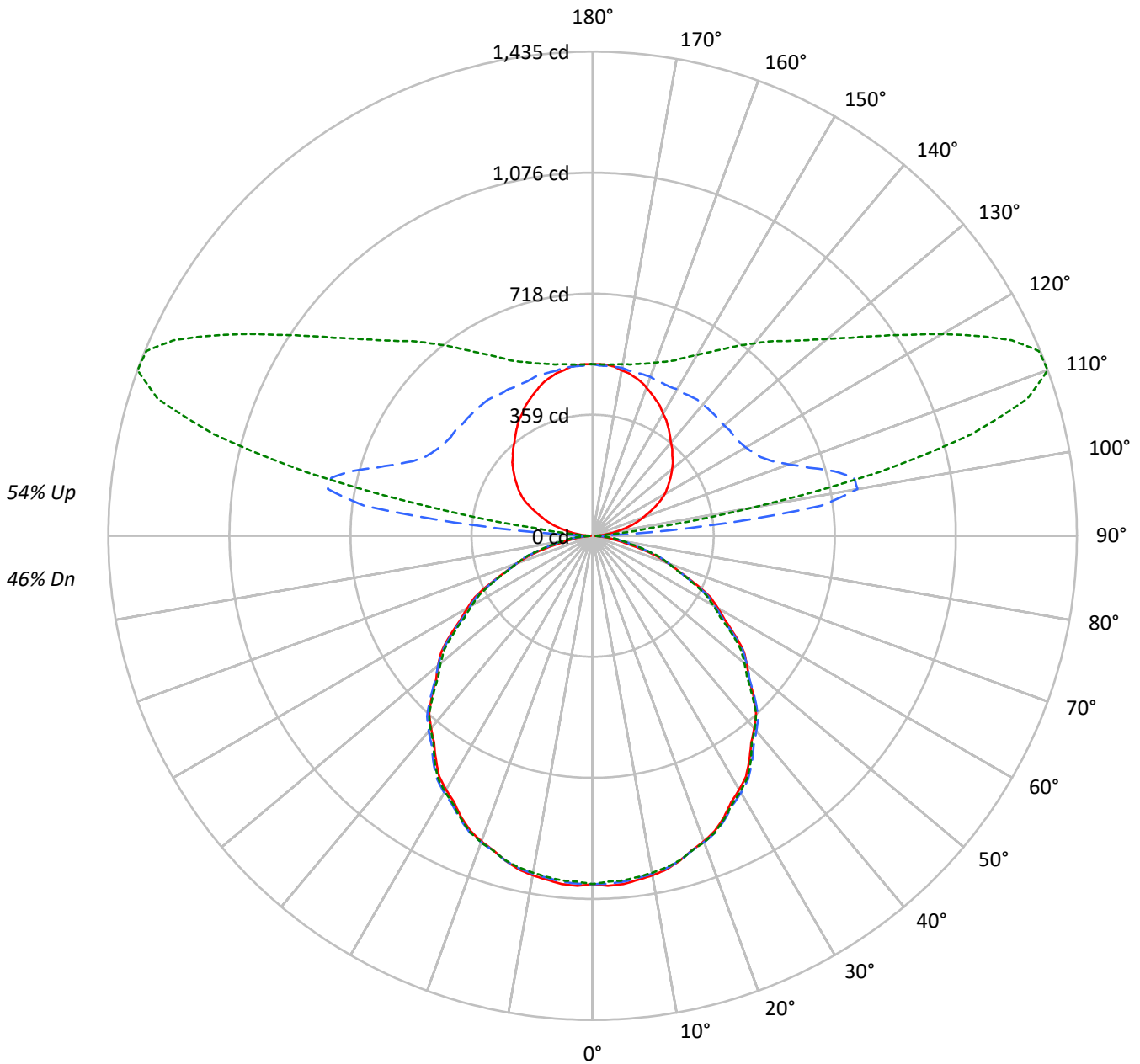
Lumens per Lamp: N/A
Luminaire Lumens: 6119.3 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.6
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				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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46			46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	46	45	44	39			39
2	88	81	75	70	81	74	69	65	62	59	55	51	49	46	41	39	37	33			33
3	81	71	64	58	74	66	59	54	55	50	46	45	42	39	36	34	32	28			28
4	74	63	55	49	67	58	51	46	49	44	39	40	36	33	32	30	27	24			24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24	20			20
6	62	50	42	36	57	46	39	34	39	34	30	33	28	25	26	23	21	18			18
7	57	45	37	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16			16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17	14			14
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15	13			13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	14	12			12

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	1.6
10°-20°	280.4	4.6
20°-30°	424.6	6.9
30°-40°	509.0	8.3
40°-50°	519.0	8.5
50°-60°	453.0	7.4
60°-70°	324.3	5.3
70°-80°	167.1	2.7
80°-90°	43.5	0.7
90°-100°	202.4	3.3
100°-110°	704.3	11.5
110°-120°	682.2	11.1
120°-130°	535.2	8.7
130°-140°	423.6	6.9
140°-150°	326.9	5.3
150°-160°	234.3	3.8
160°-170°	143.3	2.3
170°-180°	48.5	0.8
0°-30°	802.6	13.1
0°-40°	1311.6	21.4
0°-60°	2283.6	37.3
0°-90°	2818.5	46.1
90°-120°	1588.9	26.0
90°-150°	2874.6	47.0
90°-180°	3301.0	53.9
0°-180°	6119.3	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°	8	11	11	8	4	6
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°	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°	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)