

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: P845111

Luminaire Tested: **SQ4P-PP3-100U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845111
REPORT IS A COMBINATION OF REPORTS P700088 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-100U-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

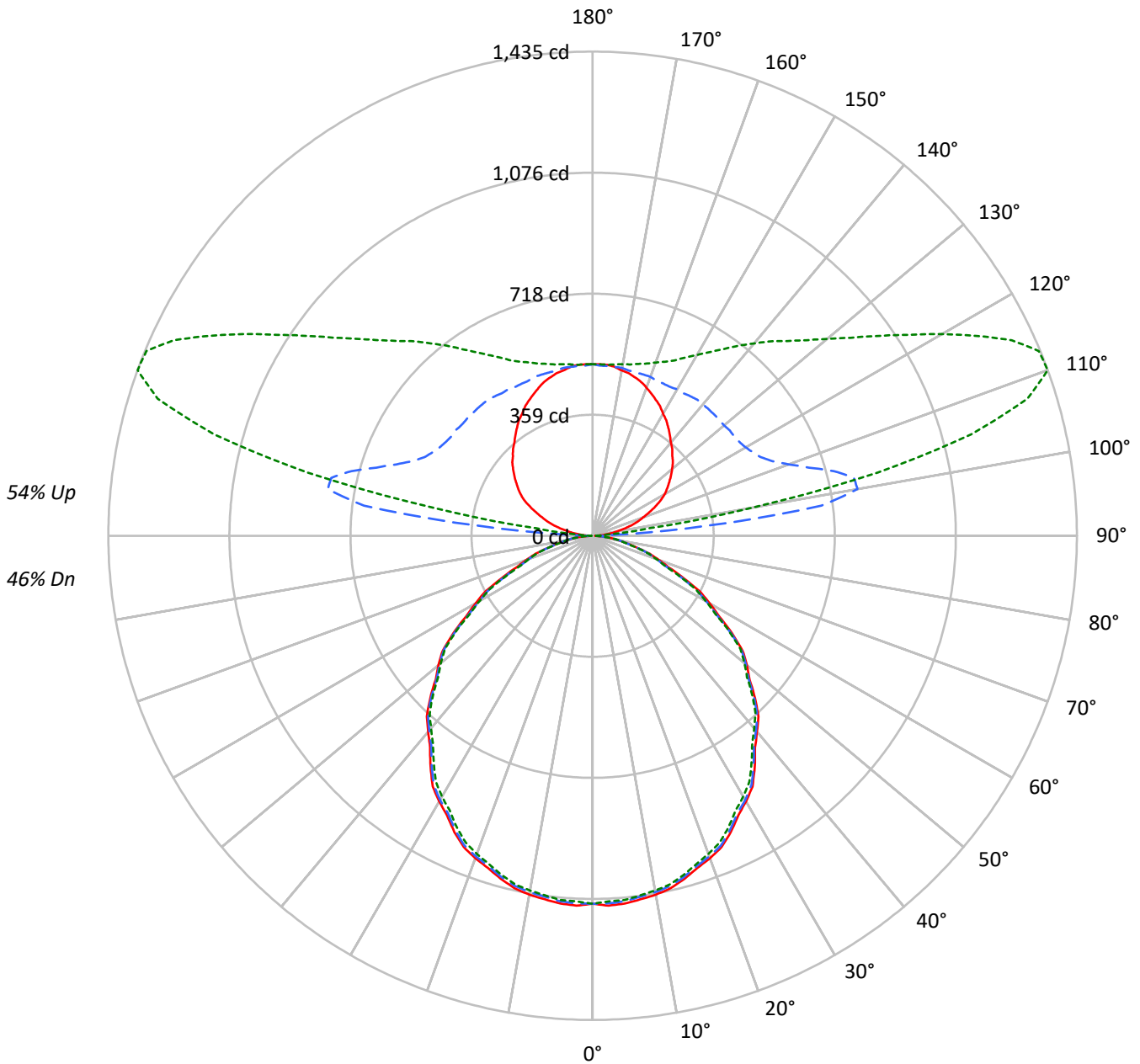
Lumens per Lamp: N/A
Luminaire Lumens: 6092.9 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0		
RCR																										
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46								
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	47	45	45	39								
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	38	33								
3	81	71	64	59	74	66	60	55	55	51	47	46	42	39	37	34	32	28								
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24								
5	68	56	48	42	62	52	45	40	44	39	35	37	33	29	29	27	24	21								
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18								
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16								
8	54	41	34	28	49	38	32	27	33	27	24	27	23	20	22	19	17	15								
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13								
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10061	10061	10061
5°	10134	10072	10037
10°	10117	10046	10001
15°	10051	9996	9940
20°	9983	9927	9852
25°	9865	9797	9701
30°	9683	9632	9509
35°	9429	9365	9246
40°	9127	9069	8967
45°	8879	8816	8728
50°	8559	8504	8421
55°	8115	8011	7949
60°	7388	7180	7141
65°	6512	6237	6217
70°	5616	5387	5387
75°	4837	4770	4698
80°	4261	4314	4213
85°	3335	3642	3642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	1.7
10°-20°	294.4	4.8
20°-30°	441.0	7.2
30°-40°	517.3	8.5
40°-50°	518.9	8.5
50°-60°	442.7	7.3
60°-70°	288.7	4.7
70°-80°	144.8	2.4
80°-90°	41.3	0.7
90°-100°	202.4	3.3
100°-110°	704.3	11.6
110°-120°	682.2	11.2
120°-130°	535.2	8.8
130°-140°	423.6	7.0
140°-150°	326.9	5.4
150°-160°	234.3	3.8
160°-170°	143.3	2.4
170°-180°	48.5	0.8
0°-30°	838.5	13.8
0°-40°	1355.8	22.3
0°-60°	2317.3	38.0
0°-90°	2792.1	45.8
90°-120°	1588.9	26.1
90°-150°	2874.6	47.2
90°-180°	3301.0	54.2
0°-180°	6092.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1094	1084	1088	1084	1084	104
15°	1052	1042	1046	1043	1041	297
25°	969	958	962	954	953	446
35°	837	829	832	822	821	523
45°	680	676	676	669	669	524
55°	504	503	498	495	494	448
65°	298	293	286	284	285	298
75°	136	136	134	133	132	147
85°	32	34	34	34	34	37
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°	1090.5	1090.5	1090.5	1090.5	1090.5
2.5°	1097.3	1088.4	1090.5	1088.9	1084.3
5°	1094.2	1084.1	1087.5	1083.7	1083.7
7.5°	1086.8	1075.6	1079.1	1075.3	1075.2
10°	1079.9	1068.7	1072.3	1068.4	1067.5
12.5°	1070.1	1058.8	1063.1	1058.5	1058.3
15°	1052.3	1041.9	1046.5	1042.6	1040.7
17.5°	1032.1	1020.9	1026.4	1021.1	1020.3
20°	1016.8	1005.6	1011.1	1003.4	1003.4
22.5°	998.5	987.3	993.5	983.6	983.6
25°	969.1	957.8	962.4	953.7	952.9
27.5°	934.1	923.1	927.9	918.0	917.8
30°	908.9	898.5	904.1	893.5	892.6
32.5°	881.4	871.8	875.8	865.2	864.3
35°	837.2	828.8	831.5	821.9	820.9
37.5°	790.8	782.2	785.1	776.9	776.6
40°	757.8	752.2	753.0	746.3	744.5
42.5°	727.3	720.9	721.7	714.9	714.6
45°	680.5	675.7	675.7	668.9	668.9
47.5°	630.8	627.2	626.2	620.5	620.4
50°	596.3	593.5	592.5	587.7	586.7
52.5°	560.4	559.1	555.8	551.8	551.6
55°	504.5	502.7	498.0	495.0	494.2
57.5°	444.1	440.3	434.9	430.8	431.4
60°	400.4	396.6	389.1	387.0	387.0
62.5°	358.4	353.9	346.2	343.6	345.0
65°	298.3	292.6	285.7	283.9	284.8
67.5°	243.6	238.4	231.0	231.0	230.4
70°	208.2	205.5	199.7	199.7	199.7
72.5°	176.9	175.7	171.5	171.3	170.7
75°	135.7	135.7	133.8	132.8	131.8
77.5°	101.7	102.0	101.2	100.2	98.3
80°	80.2	82.2	81.2	80.2	79.3
82.5°	60.5	62.2	62.1	60.5	60.2
85°	31.5	34.2	34.4	34.4	34.4
87.5°	8.4	11.4	12.2	12.2	13.0
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)