

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P561679

Luminaire Tested: **SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561679
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7978.8 lumens
Efficiency: N/A
Efficacy: 128.7 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

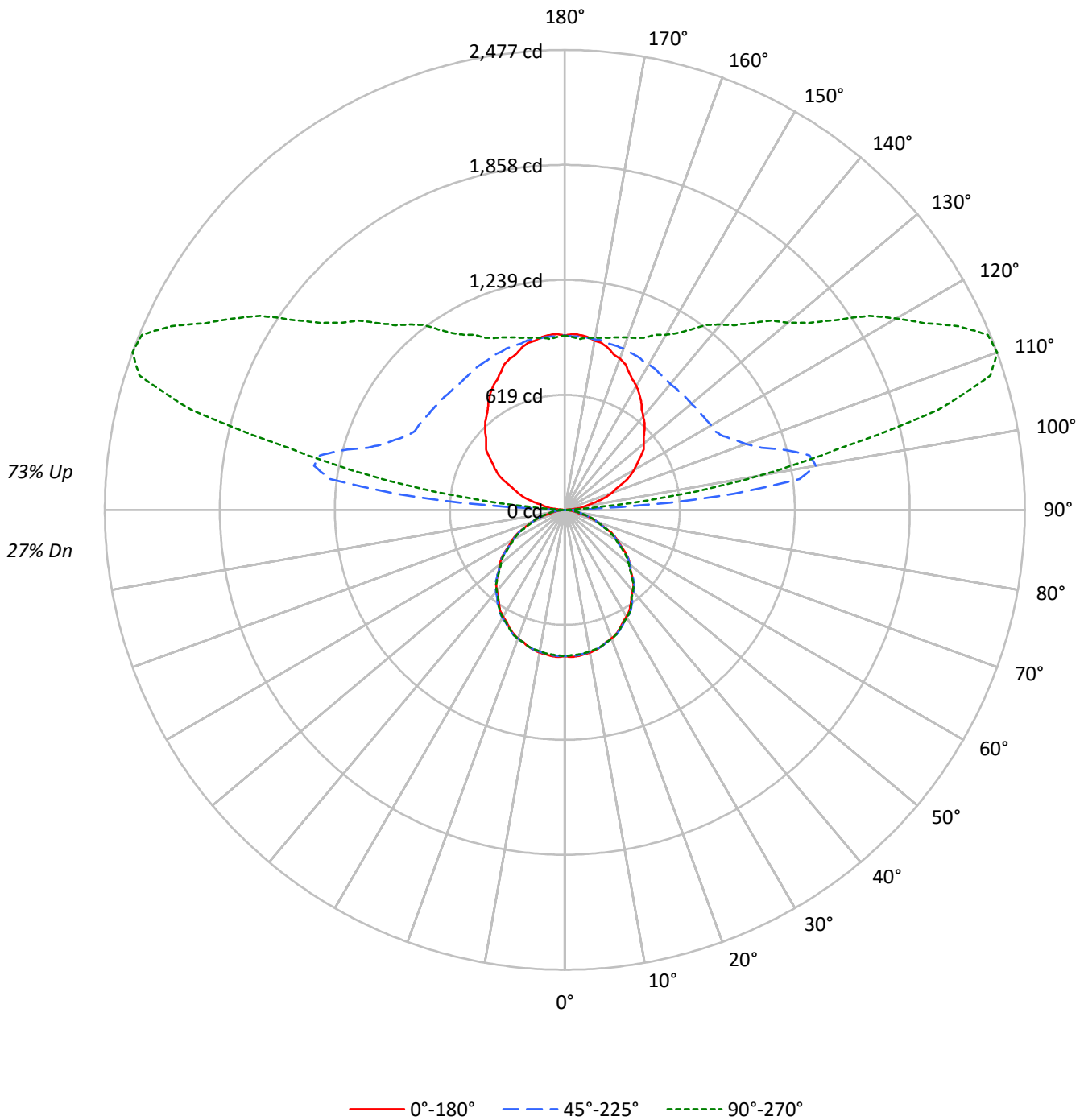
Input Watts (W): 62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	81	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	11
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7273	7273	7273
5°	7329	7280	7254
10°	7310	7277	7256
15°	7272	7272	7265
20°	7224	7246	7246
25°	7156	7207	7186
30°	7069	7154	7123
35°	6964	7070	7021
40°	6848	6946	6875
45°	6724	6772	6667
50°	6548	6548	6443
55°	6341	6259	6164
60°	6034	5912	5818
65°	5578	5466	5418
70°	4883	4923	4904
75°	3928	4345	4370
80°	2795	3682	3725
85°	1704	3091	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	0.9
10°-20°	214.1	2.7
20°-30°	324.2	4.1
30°-40°	388.7	4.9
40°-50°	396.4	5.0
50°-60°	346.0	4.3
60°-70°	247.7	3.1
70°-80°	127.6	1.6
80°-90°	32.3	0.4
90°-100°	427.5	5.4
100°-110°	1216.3	15.2
110°-120°	1165.4	14.6
120°-130°	922.3	11.6
130°-140°	740.3	9.3
140°-150°	579.6	7.3
150°-160°	424.1	5.3
160°-170°	262.7	3.3
170°-180°	89.1	1.1
0°-30°	612.9	7.7
0°-40°	1001.6	12.6
0°-60°	1744.0	21.9
0°-90°	2151.5	27.0
90°-120°	2809.1	35.2
90°-150°	5051.4	63.3
90°-180°	5827.0	73.0
0°-180°	7978.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	791	783	786	784	783	75
15°	761	755	761	761	761	215
25°	703	698	708	706	706	323
35°	618	617	628	623	623	387
45°	515	514	519	512	511	397
55°	394	389	389	383	383	351
65°	256	250	250	248	248	253
75°	110	115	122	123	123	119
85°	16	25	29	30	29	22
90°	0	0	0	0	0	3
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.3	788.3	788.3	788.3	788.3
2.5°	793.0	786.2	788.3	786.5	783.7
5°	791.3	783.4	786.1	783.9	783.2
7.5°	785.6	777.7	781.3	779.9	779.1
10°	780.3	772.5	776.7	775.2	774.5
12.5°	773.3	766.0	770.8	769.4	769.2
15°	761.3	754.9	761.3	761.3	760.6
17.5°	746.3	740.4	747.3	747.7	747.3
20°	735.8	729.4	738.0	737.3	738.0
22.5°	722.9	717.7	726.9	725.0	725.7
25°	702.9	697.9	708.0	705.9	705.9
27.5°	679.3	675.7	686.7	684.4	684.4
30°	663.5	659.9	671.5	668.6	668.6
32.5°	646.0	643.6	654.6	651.1	651.1
35°	618.3	616.8	627.7	623.4	623.4
37.5°	589.6	588.4	598.3	593.0	591.3
40°	568.6	567.9	576.7	570.8	570.8
42.5°	547.6	546.9	554.5	547.5	547.5
45°	515.3	513.9	519.0	512.4	511.0
47.5°	480.2	478.7	481.9	474.7	474.0
50°	456.2	454.8	456.2	449.6	448.9
52.5°	431.7	429.1	429.4	422.8	422.6
55°	394.2	389.2	389.1	383.2	383.2
57.5°	354.5	347.9	348.5	343.5	342.8
60°	327.0	319.9	320.4	316.0	315.3
62.5°	300.2	291.9	293.6	288.6	288.5
65°	255.5	249.8	250.4	248.2	248.2
67.5°	212.6	207.3	211.1	209.3	209.2
70°	181.0	177.5	182.5	182.5	181.8
72.5°	151.8	151.7	158.0	158.0	158.4
75°	110.2	115.2	121.9	122.6	122.6
77.5°	73.6	82.4	89.8	90.1	89.9
80°	52.6	62.5	69.3	70.8	70.1
82.5°	35.6	46.2	51.8	53.3	52.6
85°	16.1	24.6	29.2	29.9	29.2
87.5°	4.7	9.8	11.7	11.7	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)