

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: P561678

Luminaire Tested: **SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561678
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

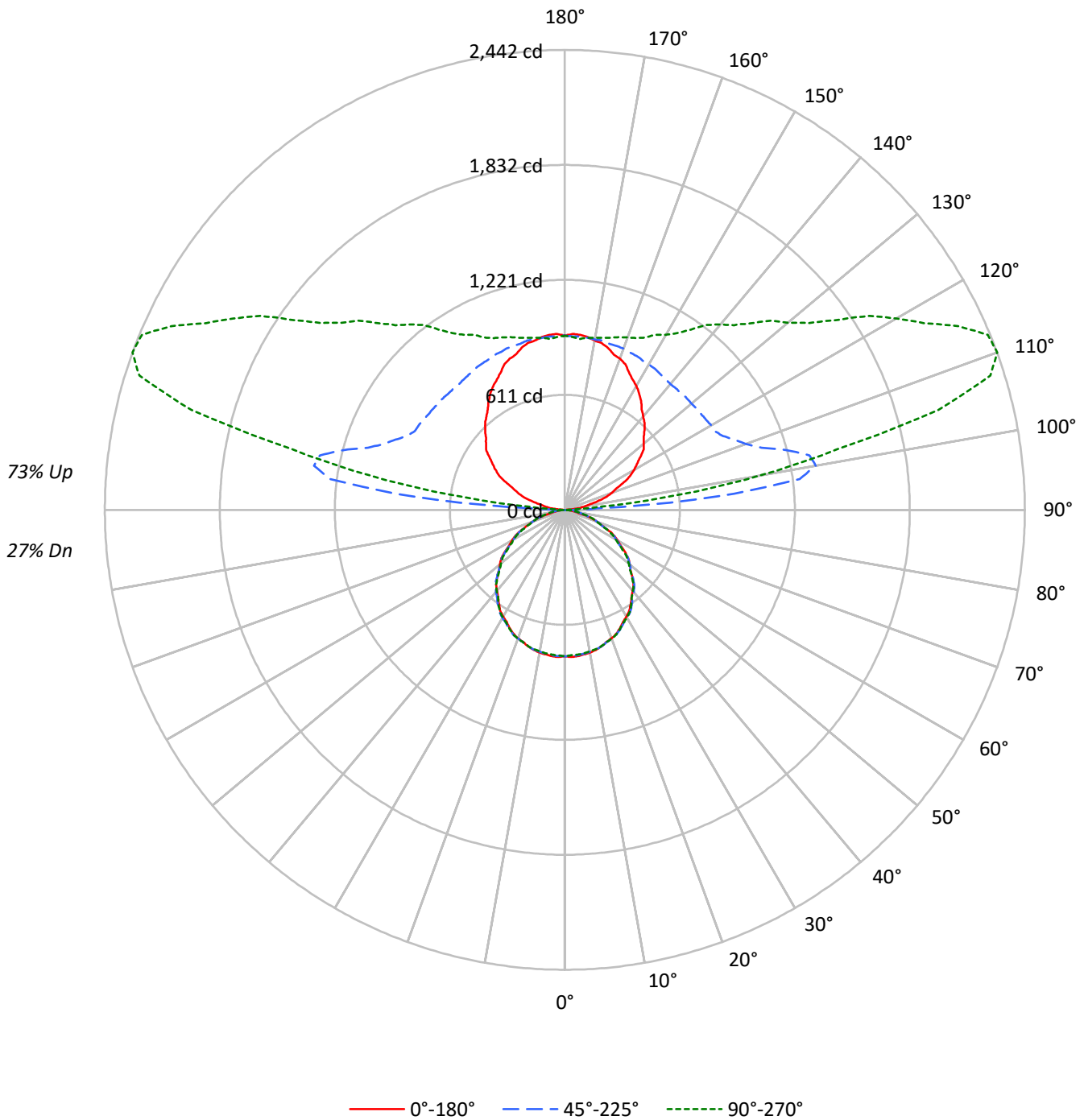
Lumens per Lamp: N/A
Luminaire Lumens: 7866.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.1
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°	7172	7172	7172
5°	7225	7179	7152
10°	7207	7173	7154
15°	7169	7169	7163
20°	7122	7144	7144
25°	7056	7107	7084
30°	6970	7054	7023
35°	6866	6971	6922
40°	6752	6848	6778
45°	6630	6677	6573
50°	6456	6456	6353
55°	6251	6170	6077
60°	5949	5829	5737
65°	5499	5390	5342
70°	4815	4853	4834
75°	3875	4285	4310
80°	2752	3634	3671
85°	1673	3049	3049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	0.9
10°-20°	211.1	2.7
20°-30°	319.7	4.1
30°-40°	383.2	4.9
40°-50°	390.8	5.0
50°-60°	341.1	4.3
60°-70°	244.2	3.1
70°-80°	125.8	1.6
80°-90°	31.8	0.4
90°-100°	421.5	5.4
100°-110°	1199.2	15.2
110°-120°	1149.0	14.6
120°-130°	909.4	11.6
130°-140°	729.9	9.3
140°-150°	571.4	7.3
150°-160°	418.1	5.3
160°-170°	259.0	3.3
170°-180°	87.9	1.1
0°-30°	604.3	7.7
0°-40°	987.6	12.6
0°-60°	1719.5	21.9
0°-90°	2121.3	27.0
90°-120°	2769.7	35.2
90°-150°	4980.4	63.3
90°-180°	5745.0	73.0
0°-180°	7866.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	780	772	775	773	772	74
15°	751	744	751	751	750	212
25°	693	688	698	696	696	319
35°	610	608	619	615	615	381
45°	508	507	512	505	504	391
55°	389	384	384	378	378	346
65°	252	246	247	245	245	249
75°	109	114	120	121	121	117
85°	16	24	29	30	29	21
90°	0	0	0	0	0	3
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.3	777.3	777.3	777.3	777.3
2.5°	781.9	775.1	777.3	775.5	772.7
5°	780.1	772.4	775.1	772.9	772.2
7.5°	774.5	766.8	770.4	768.9	768.2
10°	769.3	761.6	765.7	764.3	763.6
12.5°	762.4	755.3	760.0	758.5	758.4
15°	750.6	744.3	750.6	750.6	749.9
17.5°	735.8	730.0	736.8	737.2	736.8
20°	725.4	719.1	727.6	726.9	727.6
22.5°	712.8	707.6	716.7	714.8	715.5
25°	693.1	688.1	698.1	695.9	695.9
27.5°	669.7	666.2	677.1	674.8	674.8
30°	654.2	650.7	662.1	659.2	659.2
32.5°	636.9	634.5	645.4	642.0	642.0
35°	609.6	608.2	618.9	614.6	614.6
37.5°	581.4	580.1	589.9	584.6	582.9
40°	560.6	559.9	568.6	562.8	562.8
42.5°	539.9	539.2	546.7	539.8	539.8
45°	508.1	506.7	511.7	505.2	503.8
47.5°	473.4	472.0	475.1	468.1	467.4
50°	449.8	448.4	449.8	443.3	442.6
52.5°	425.6	423.1	423.3	416.8	416.7
55°	388.6	383.7	383.6	377.8	377.8
57.5°	349.5	343.0	343.6	338.7	338.0
60°	322.4	315.4	315.9	311.6	310.9
62.5°	295.9	287.8	289.5	284.6	284.4
65°	251.9	246.3	246.9	244.7	244.7
67.5°	209.6	204.4	208.1	206.4	206.3
70°	178.5	175.0	179.9	179.9	179.2
72.5°	149.7	149.6	155.7	155.8	156.2
75°	108.7	113.6	120.2	120.9	120.9
77.5°	72.5	81.3	88.5	88.8	88.7
80°	51.8	61.7	68.4	69.8	69.1
82.5°	35.1	45.5	51.1	52.5	51.8
85°	15.8	24.3	28.8	29.5	28.8
87.5°	4.6	9.7	11.5	11.5	10.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)