

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: P562974

Luminaire Tested: **SQ4-PC3-100U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562974
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

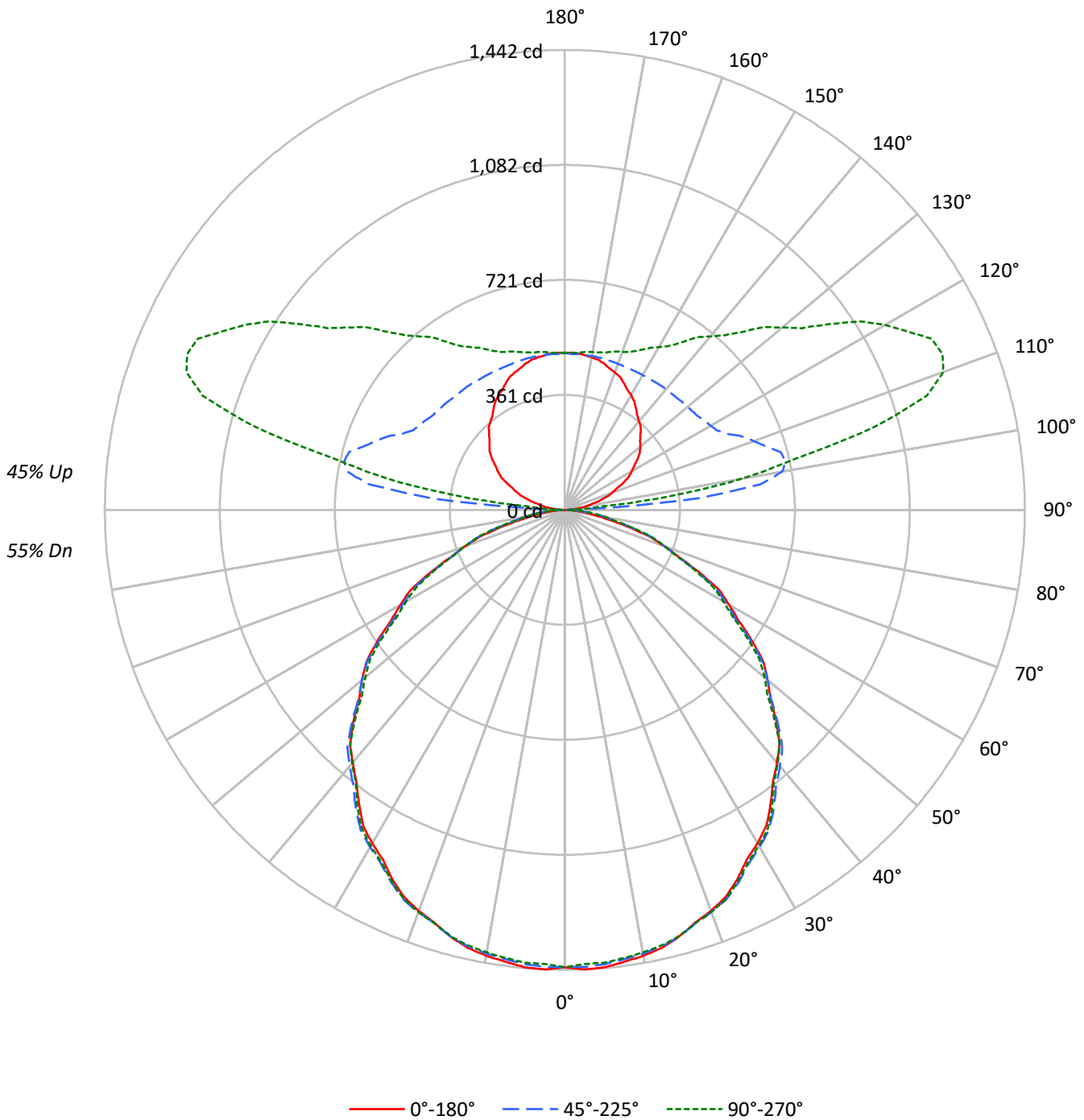
Lumens per Lamp: N/A
Luminaire Lumens: 7110.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	50	30	10	0	
RCR																						
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47				
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39				
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12859	13014	12957
35°	12666	12861	12771
40°	12457	12633	12505
45°	12231	12318	12127
50°	11912	11912	11721
55°	11533	11384	11213
60°	10975	10756	10584
65°	10145	9942	9855
70°	8883	8953	8918
75°	7147	7903	7953
80°	5079	6700	6774
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	1.9
10°-20°	389.5	5.5
20°-30°	589.8	8.3
30°-40°	707.1	9.9
40°-50°	721.0	10.1
50°-60°	629.4	8.9
60°-70°	450.5	6.3
70°-80°	232.1	3.3
80°-90°	59.7	0.8
90°-100°	230.4	3.2
100°-110°	635.9	8.9
110°-120°	655.9	9.2
120°-130°	527.0	7.4
130°-140°	414.2	5.8
140°-150°	317.7	4.5
150°-160°	228.3	3.2
160°-170°	139.6	2.0
170°-180°	47.1	0.7
0°-30°	1115.0	15.7
0°-40°	1822.0	25.6
0°-60°	3172.3	44.6
0°-90°	3914.7	55.1
90°-120°	1522.1	21.4
90°-150°	2781.0	39.1
90°-180°	3196.0	44.9
0°-180°	7110.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1439	1425	1430	1426	1425	137
15°	1385	1373	1385	1385	1384	390
25°	1279	1270	1288	1284	1284	588
35°	1125	1122	1142	1134	1134	703
45°	937	935	944	932	929	722
55°	717	708	708	697	697	639
65°	465	454	455	451	451	460
75°	200	210	222	223	223	217
85°	29	45	53	54	53	40
90°	2	3	6	7	8	4
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1442.5	1430.0	1434.0	1430.7	1425.5
5°	1439.3	1425.0	1430.0	1426.0	1424.7
7.5°	1429.0	1414.7	1421.3	1418.6	1417.3
10°	1419.4	1405.1	1412.8	1410.1	1408.8
12.5°	1406.6	1393.4	1402.1	1399.5	1399.2
15°	1384.9	1373.2	1384.9	1384.8	1383.5
17.5°	1357.5	1346.9	1359.4	1360.2	1359.4
20°	1338.4	1326.7	1342.4	1341.1	1342.4
22.5°	1315.0	1305.4	1322.2	1318.8	1320.1
25°	1278.7	1269.6	1287.9	1284.0	1284.0
27.5°	1235.6	1229.1	1249.2	1244.9	1244.9
30°	1207.0	1200.5	1221.6	1216.2	1216.2
32.5°	1175.1	1170.7	1190.8	1184.4	1184.4
35°	1124.6	1122.0	1141.9	1133.9	1133.9
37.5°	1072.6	1070.2	1088.2	1078.6	1075.5
40°	1034.3	1033.0	1048.9	1038.3	1038.3
42.5°	996.1	994.8	1008.6	995.8	995.8
45°	937.4	934.8	944.1	932.0	929.4
47.5°	873.4	870.8	876.6	863.6	862.3
50°	829.9	827.3	829.9	817.9	816.6
52.5°	785.2	780.6	781.0	769.0	768.8
55°	717.0	707.9	707.7	697.1	697.1
57.5°	644.8	632.8	633.9	624.8	623.5
60°	594.8	581.9	582.9	574.9	573.6
62.5°	546.0	530.9	534.0	525.0	524.7
65°	464.7	454.3	455.4	451.4	451.4
67.5°	386.6	377.0	384.0	380.8	380.5
70°	329.3	322.8	331.9	331.9	330.6
72.5°	276.2	275.9	287.3	287.3	288.1
75°	200.5	209.6	221.7	223.1	223.1
77.5°	133.8	149.9	163.3	163.8	163.6
80°	95.6	113.8	126.1	128.8	127.5
82.5°	64.8	84.0	94.3	96.9	95.6
85°	29.2	44.8	53.1	54.4	53.1
87.5°	8.8	18.5	22.5	22.6	20.7
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)