

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: P563070

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563070
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

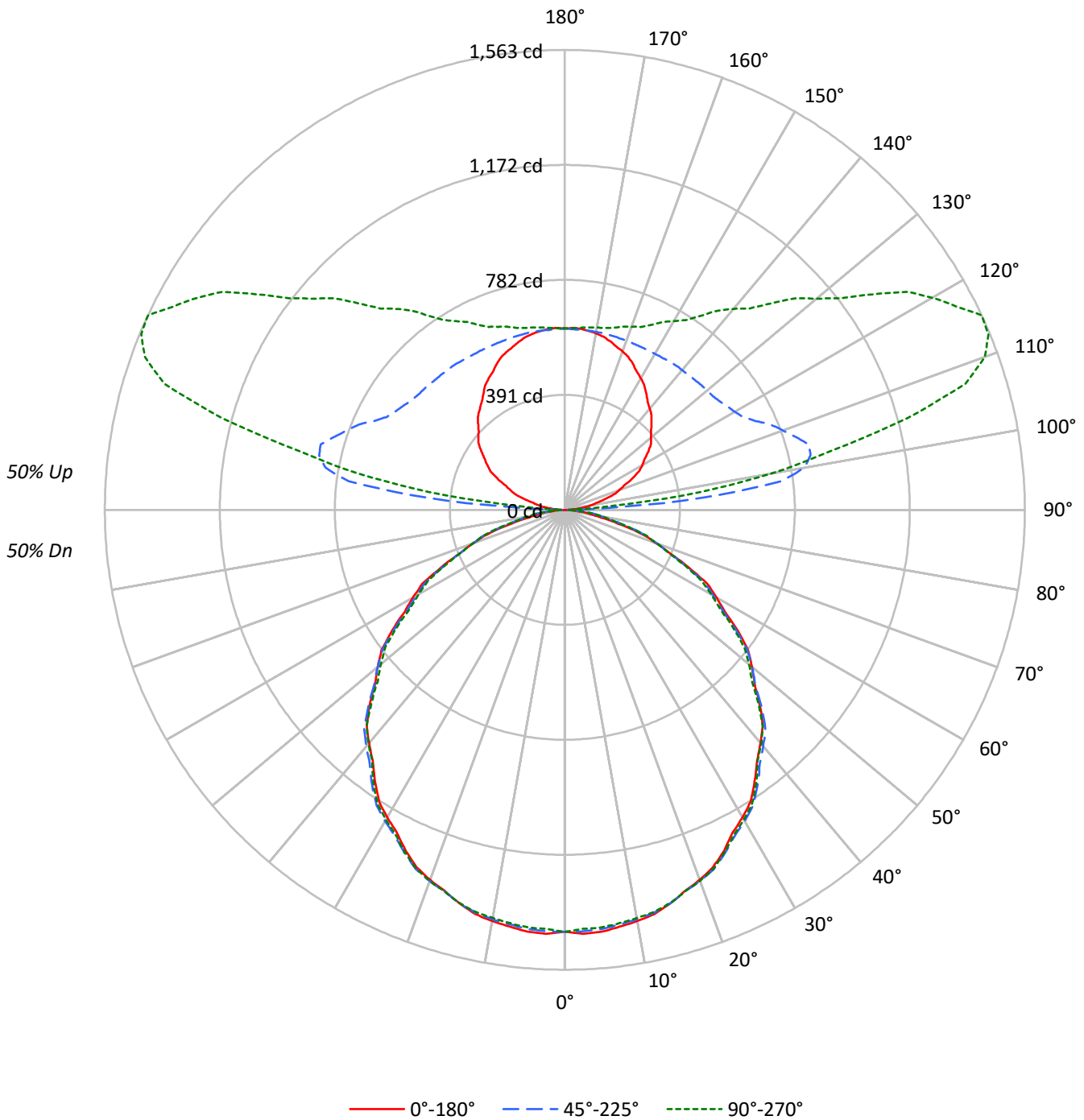
Lumens per Lamp: N/A
Luminaire Lumens: 7893.3 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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	1.7
10°-20°	389.5	4.9
20°-30°	589.8	7.5
30°-40°	707.1	9.0
40°-50°	721.0	9.1
50°-60°	629.4	8.0
60°-70°	450.5	5.7
70°-80°	232.1	2.9
80°-90°	60.1	0.8
90°-100°	288.3	3.7
100°-110°	776.6	9.8
110°-120°	815.0	10.3
120°-130°	661.3	8.4
130°-140°	518.7	6.6
140°-150°	398.2	5.0
150°-160°	286.3	3.6
160°-170°	174.9	2.2
170°-180°	59.0	0.7
0°-30°	1115.0	14.1
0°-40°	1822.0	23.1
0°-60°	3172.3	40.2
0°-90°	3915.1	49.6
90°-120°	1879.8	23.8
90°-150°	3458.0	43.8
90°-180°	3978.0	50.4
0°-180°	7893.3	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	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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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	18.8	23.1	23.2	21.2
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)