

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: P563046

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563046
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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

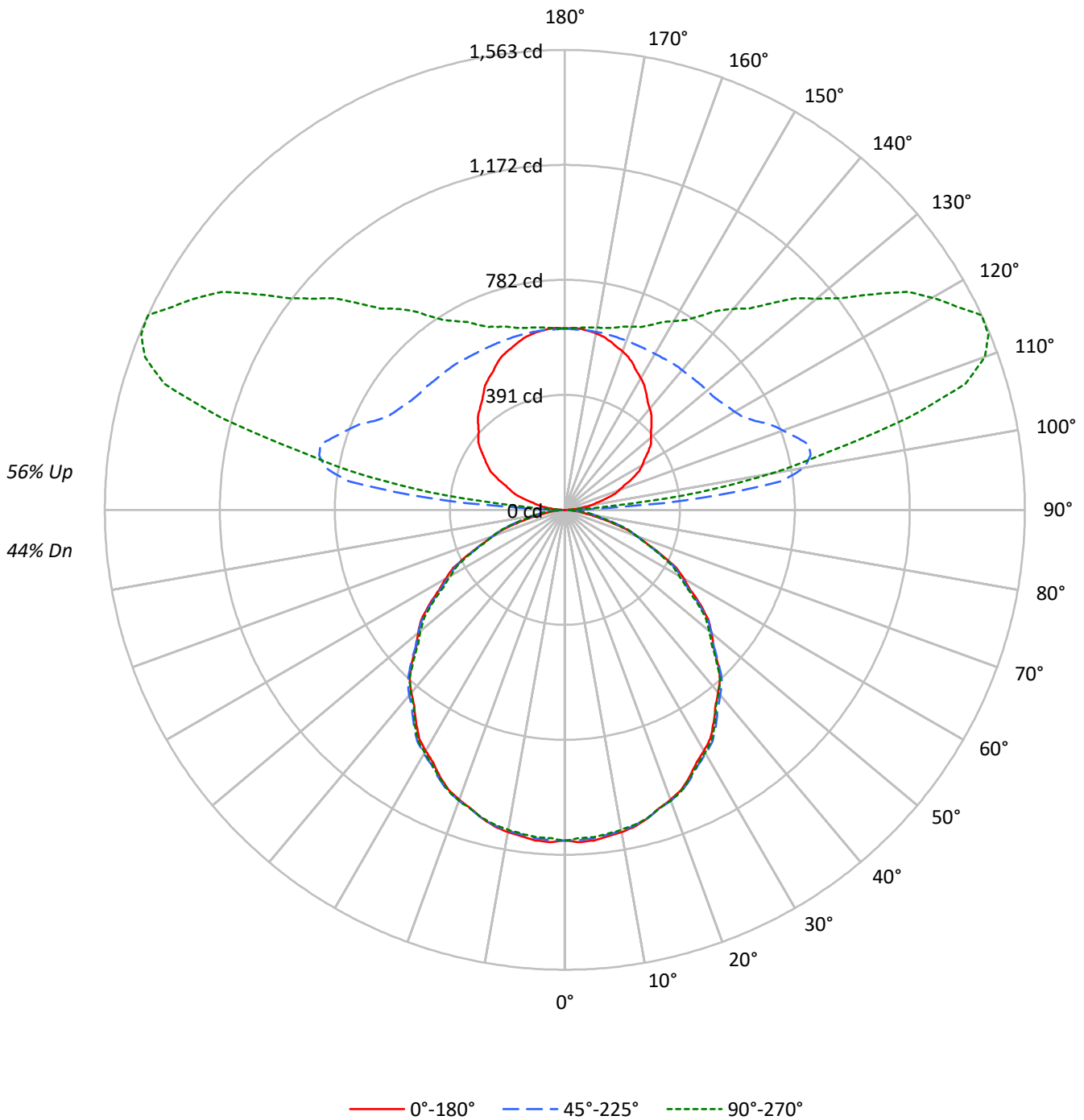
Lumens per Lamp: N/A
Luminaire Lumens: 7046.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10421	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10275	10242
30°	10076	10198	10154
35°	9926	10078	10008
40°	9762	9900	9799
45°	9585	9653	9503
50°	9334	9334	9185
55°	9038	8921	8786
60°	8601	8429	8294
65°	7951	7792	7724
70°	6960	7016	6989
75°	5600	6196	6231
80°	3980	5249	5308
85°	2424	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.5
10°-20°	305.2	4.3
20°-30°	462.2	6.6
30°-40°	554.1	7.9
40°-50°	565.0	8.0
50°-60°	493.2	7.0
60°-70°	353.1	5.0
70°-80°	181.9	2.6
80°-90°	47.4	0.7
90°-100°	288.3	4.1
100°-110°	776.6	11.0
110°-120°	815.0	11.6
120°-130°	661.3	9.4
130°-140°	518.7	7.4
140°-150°	398.2	5.7
150°-160°	286.3	4.1
160°-170°	174.9	2.5
170°-180°	59.0	0.8
0°-30°	873.7	12.4
0°-40°	1427.8	20.3
0°-60°	2485.9	35.3
0°-90°	3068.3	43.5
90°-120°	1879.8	26.7
90°-150°	3458.0	49.1
90°-180°	3978.0	56.5
0°-180°	7046.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1117	1121	1117	1116	107
15°	1085	1076	1085	1085	1084	306
25°	1002	995	1009	1006	1006	461
35°	881	879	895	889	889	551
45°	735	732	740	730	728	565
55°	562	555	555	546	546	501
65°	364	356	357	354	354	360
75°	157	164	174	175	175	170
85°	23	35	42	43	42	31
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°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1130.4	1120.6	1123.7	1121.1	1117.0
5°	1127.9	1116.7	1120.6	1117.4	1116.4
7.5°	1119.8	1108.6	1113.7	1111.6	1110.6
10°	1112.3	1101.1	1107.1	1105.0	1103.9
12.5°	1102.3	1091.9	1098.7	1096.7	1096.4
15°	1085.2	1076.1	1085.2	1085.2	1084.2
17.5°	1063.8	1055.4	1065.2	1065.8	1065.2
20°	1048.8	1039.6	1051.9	1050.9	1051.9
22.5°	1030.5	1023.0	1036.1	1033.4	1034.4
25°	1002.0	994.9	1009.3	1006.1	1006.1
27.5°	968.3	963.2	978.9	975.5	975.5
30°	945.8	940.7	957.2	953.1	953.1
32.5°	920.8	917.4	933.1	928.1	928.1
35°	881.3	879.2	894.8	888.6	888.6
37.5°	840.5	838.7	852.8	845.2	842.8
40°	810.5	809.5	822.0	813.6	813.6
42.5°	780.6	779.5	790.3	780.4	780.4
45°	734.6	732.5	739.8	730.4	728.3
47.5°	684.4	682.4	686.9	676.7	675.7
50°	650.3	648.3	650.3	640.9	639.9
52.5°	615.3	611.7	612.0	602.6	602.4
55°	561.9	554.7	554.6	546.2	546.2
57.5°	505.3	495.9	496.7	489.6	488.6
60°	466.1	456.0	456.8	450.5	449.5
62.5°	427.8	416.0	418.5	411.4	411.2
65°	364.2	356.0	356.9	353.8	353.8
67.5°	303.0	295.5	300.9	298.4	298.2
70°	258.0	252.9	260.1	260.1	259.1
72.5°	216.4	216.2	225.2	225.2	225.8
75°	157.1	164.2	173.8	174.8	174.8
77.5°	104.9	117.5	128.0	128.4	128.2
80°	74.9	89.2	98.8	100.9	99.9
82.5°	50.8	65.8	73.9	75.9	74.9
85°	22.9	35.1	41.6	42.6	41.6
87.5°	7.0	14.9	18.5	18.7	17.0
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)