

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: P561688

Luminaire Tested: **SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561688
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-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8528.6 lumens
Efficiency: N/A
Efficacy: 116.2 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: Semi-Indirect

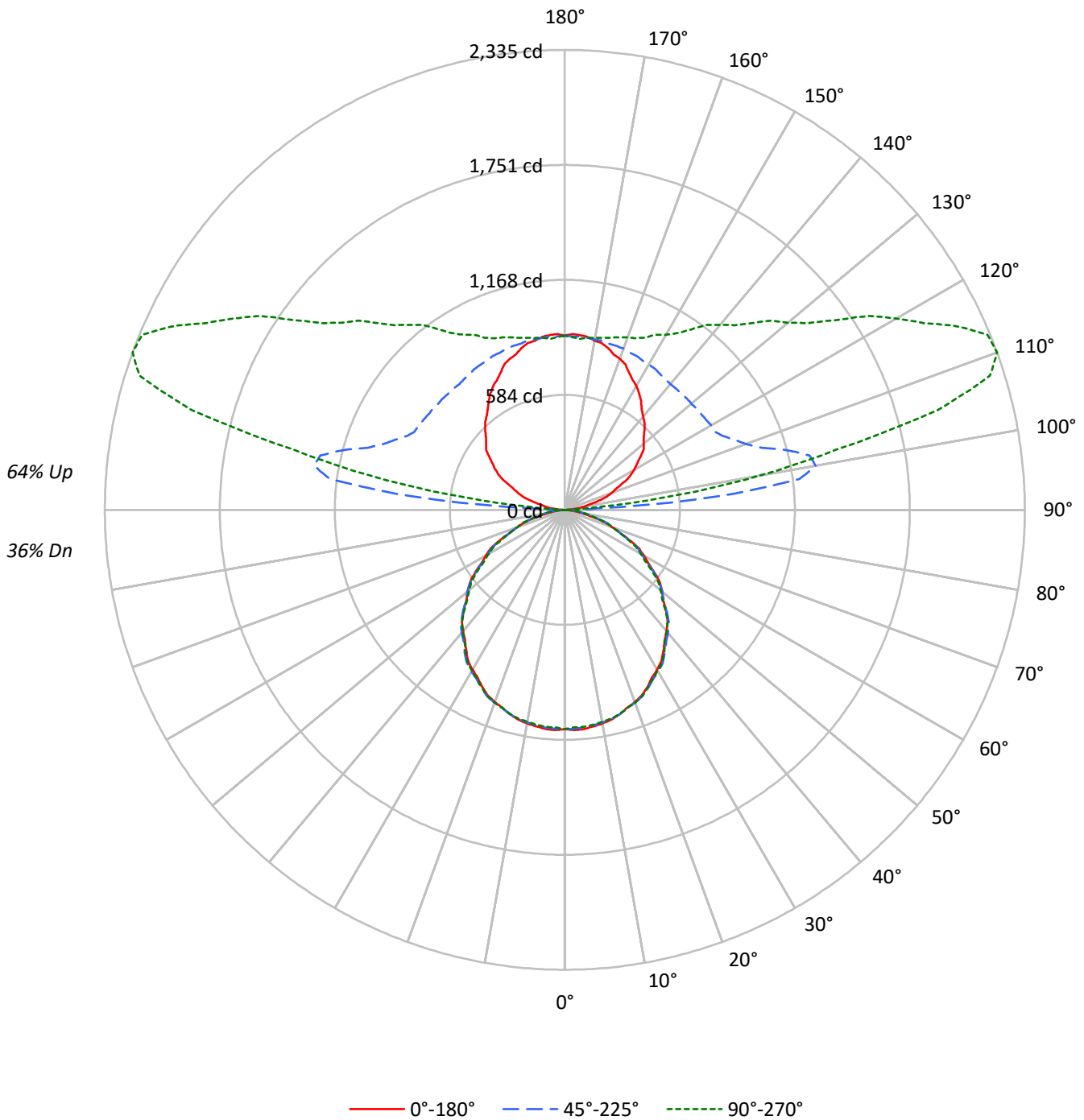
Input Watts (W): 73.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	31	25
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10266	10266	10266
5°	10343	10276	10239
10°	10319	10270	10241
15°	10264	10264	10254
20°	10196	10227	10227
25°	10100	10174	10142
30°	9977	10097	10054
35°	9828	9979	9909
40°	9666	9803	9704
45°	9491	9558	9410
50°	9242	9242	9094
55°	8948	8832	8701
60°	8518	8346	8213
65°	7872	7715	7647
70°	6892	6949	6919
75°	5547	6135	6171
80°	3942	5202	5255
85°	2403	4361	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.2
10°-20°	302.2	3.5
20°-30°	457.6	5.4
30°-40°	548.6	6.4
40°-50°	559.4	6.6
50°-60°	488.3	5.7
60°-70°	349.6	4.1
70°-80°	180.1	2.1
80°-90°	45.5	0.5
90°-100°	402.9	4.7
100°-110°	1146.3	13.4
110°-120°	1098.3	12.9
120°-130°	869.3	10.2
130°-140°	697.7	8.2
140°-150°	546.2	6.4
150°-160°	399.7	4.7
160°-170°	247.6	2.9
170°-180°	84.0	1.0
0°-30°	865.1	10.1
0°-40°	1413.8	16.6
0°-60°	2461.5	28.9
0°-90°	3036.7	35.6
90°-120°	2647.5	31.0
90°-150°	4760.6	55.8
90°-180°	5492.0	64.4
0°-180°	8528.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1117	1106	1110	1106	1106	106
15°	1075	1066	1075	1074	1074	303
25°	992	985	999	996	996	457
35°	873	871	886	880	880	546
45°	727	725	732	723	721	560
55°	556	549	549	541	541	496
65°	361	352	353	350	350	357
75°	156	163	172	173	173	168
85°	23	35	41	42	41	31
90°	0	0	0	0	0	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.7	1112.7	1112.7	1112.7	1112.7
2.5°	1119.3	1109.6	1112.7	1110.1	1106.1
5°	1116.8	1105.7	1109.6	1106.5	1105.5
7.5°	1108.8	1097.7	1102.8	1100.7	1099.7
10°	1101.4	1090.3	1096.2	1094.1	1093.1
12.5°	1091.5	1081.2	1088.0	1085.9	1085.7
15°	1074.6	1065.5	1074.6	1074.5	1073.5
17.5°	1053.3	1045.1	1054.8	1055.4	1054.8
20°	1038.5	1029.4	1041.6	1040.6	1041.6
22.5°	1020.4	1012.9	1025.9	1023.3	1024.3
25°	992.1	985.1	999.4	996.3	996.3
27.5°	958.8	953.7	969.3	966.0	966.0
30°	936.5	931.5	947.8	943.7	943.7
32.5°	911.8	908.4	923.9	919.0	919.0
35°	872.6	870.6	886.0	879.8	879.8
37.5°	832.2	830.4	844.4	836.9	834.5
40°	802.6	801.6	813.9	805.7	805.7
42.5°	772.9	771.9	782.6	772.7	772.7
45°	727.4	725.4	732.5	723.2	721.2
47.5°	677.7	675.7	680.2	670.1	669.1
50°	643.9	641.9	643.9	634.6	633.6
52.5°	609.3	605.7	606.0	596.7	596.5
55°	556.3	549.3	549.1	540.9	540.9
57.5°	500.3	491.0	491.8	484.8	483.8
60°	461.6	451.5	452.3	446.1	445.1
62.5°	423.6	412.0	414.4	407.4	407.2
65°	360.6	352.5	353.4	350.3	350.3
67.5°	300.0	292.6	298.0	295.5	295.3
70°	255.5	250.5	257.6	257.5	256.5
72.5°	214.3	214.1	222.9	223.0	223.6
75°	155.6	162.6	172.1	173.1	173.1
77.5°	103.9	116.3	126.7	127.1	126.9
80°	74.2	88.3	97.9	99.9	98.9
82.5°	50.3	65.2	73.1	75.2	74.2
85°	22.7	34.8	41.2	42.2	41.2
87.5°	6.6	13.8	16.5	16.4	14.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)