

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: P561717

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561717
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-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 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

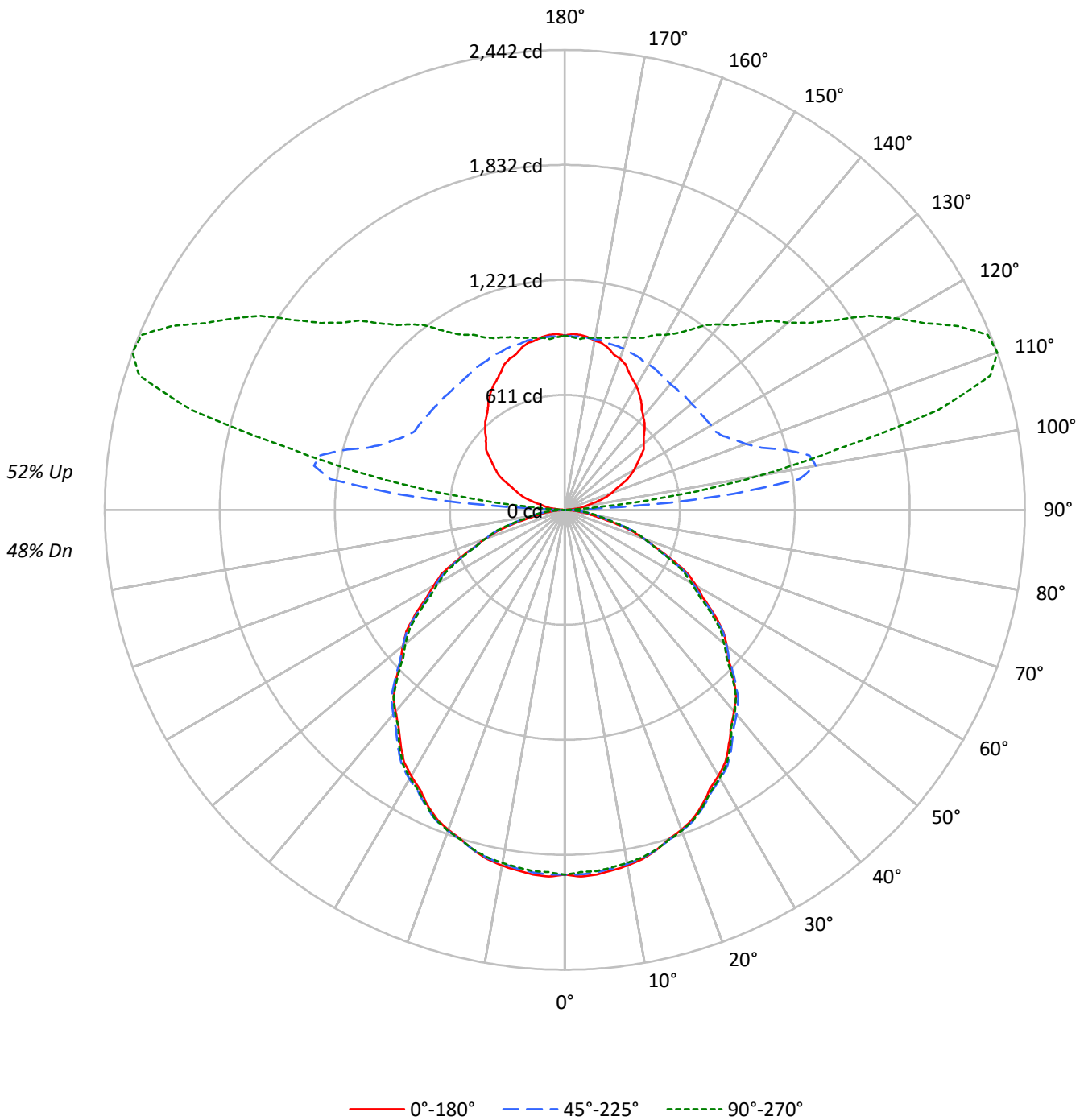
Lumens per Lamp: N/A
Luminaire Lumens: 11032.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.1
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									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																									
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48							
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41							
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34							
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29							
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	25							
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21							
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19							
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17							
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15							
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13							
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17875	17875	17875
5°	18010	17893	17826
10°	17966	17882	17831
15°	17871	17871	17854
20°	17753	17807	17807
25°	17586	17714	17659
30°	17372	17583	17506
35°	17113	17376	17255
40°	16830	17069	16895
45°	16525	16641	16384
50°	16093	16093	15835
55°	15582	15379	15149
60°	14830	14531	14301
65°	13708	13433	13315
70°	12001	12099	12050
75°	9657	10680	10744
80°	6865	9054	9149
85°	4181	7601	7601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	1.7
10°-20°	526.2	4.8
20°-30°	796.8	7.2
30°-40°	955.3	8.7
40°-50°	974.0	8.8
50°-60°	850.3	7.7
60°-70°	608.7	5.5
70°-80°	313.5	2.8
80°-90°	79.3	0.7
90°-100°	421.5	3.8
100°-110°	1199.2	10.9
110°-120°	1149.0	10.4
120°-130°	909.4	8.2
130°-140°	729.9	6.6
140°-150°	571.4	5.2
150°-160°	418.1	3.8
160°-170°	259.0	2.3
170°-180°	87.9	0.8
0°-30°	1506.3	13.7
0°-40°	2461.6	22.3
0°-60°	4286.0	38.8
0°-90°	5287.5	47.9
90°-120°	2769.7	25.1
90°-150°	4980.4	45.1
90°-180°	5745.0	52.1
0°-180°	11032.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1945	1925	1932	1927	1925	185
15°	1871	1855	1871	1871	1869	528
25°	1728	1715	1740	1735	1735	795
35°	1519	1516	1543	1532	1532	950
45°	1266	1263	1275	1259	1256	975
55°	969	956	956	942	942	864
65°	628	614	615	610	610	621
75°	271	283	300	301	301	293
85°	40	60	72	74	72	54
90°	0	0	0	0	0	4
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	



TEST NUMBER: P561717

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.4	1937.4	1937.4	1937.4	1937.4
2.5°	1948.9	1932.0	1937.4	1932.9	1925.9
5°	1944.6	1925.3	1932.0	1926.6	1924.8
7.5°	1930.6	1911.3	1920.2	1916.5	1914.8
10°	1917.7	1898.4	1908.7	1905.1	1903.3
12.5°	1900.4	1882.5	1894.3	1890.7	1890.4
15°	1871.0	1855.2	1871.0	1871.0	1869.2
17.5°	1834.1	1819.7	1836.6	1837.6	1836.6
20°	1808.2	1792.4	1813.6	1811.9	1813.6
22.5°	1776.7	1763.7	1786.3	1781.7	1783.5
25°	1727.5	1715.2	1740.1	1734.7	1734.7
27.5°	1669.4	1660.6	1687.7	1681.9	1681.9
30°	1630.6	1621.9	1650.4	1643.2	1643.2
32.5°	1587.6	1581.6	1608.7	1600.1	1600.1
35°	1519.4	1515.9	1542.7	1532.0	1532.0
37.5°	1449.1	1445.9	1470.3	1457.2	1453.0
40°	1397.4	1395.7	1417.2	1402.8	1402.8
42.5°	1345.8	1344.0	1362.6	1345.4	1345.4
45°	1266.5	1263.0	1275.4	1259.2	1255.7
47.5°	1180.0	1176.5	1184.3	1166.7	1164.9
50°	1121.2	1117.7	1121.2	1105.0	1103.2
52.5°	1060.9	1054.6	1055.2	1039.0	1038.7
55°	968.7	956.4	956.1	941.8	941.8
57.5°	871.1	855.0	856.4	844.2	842.4
60°	803.7	786.1	787.5	776.7	775.0
62.5°	737.6	717.3	721.5	709.3	708.9
65°	627.9	613.8	615.3	609.9	609.9
67.5°	522.4	509.4	518.8	514.5	514.1
70°	444.9	436.1	448.5	448.4	446.7
72.5°	373.1	372.8	388.2	388.2	389.3
75°	270.9	283.2	299.6	301.4	301.4
77.5°	180.8	202.6	220.6	221.4	221.0
80°	129.2	153.7	170.4	174.0	172.2
82.5°	87.5	113.5	127.4	130.9	129.2
85°	39.5	60.5	71.8	73.5	71.8
87.5°	11.5	24.1	28.7	28.6	25.8
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)