

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: P561714

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561714
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10546.0 lumens
Efficiency: N/A
Efficacy: 108.4 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

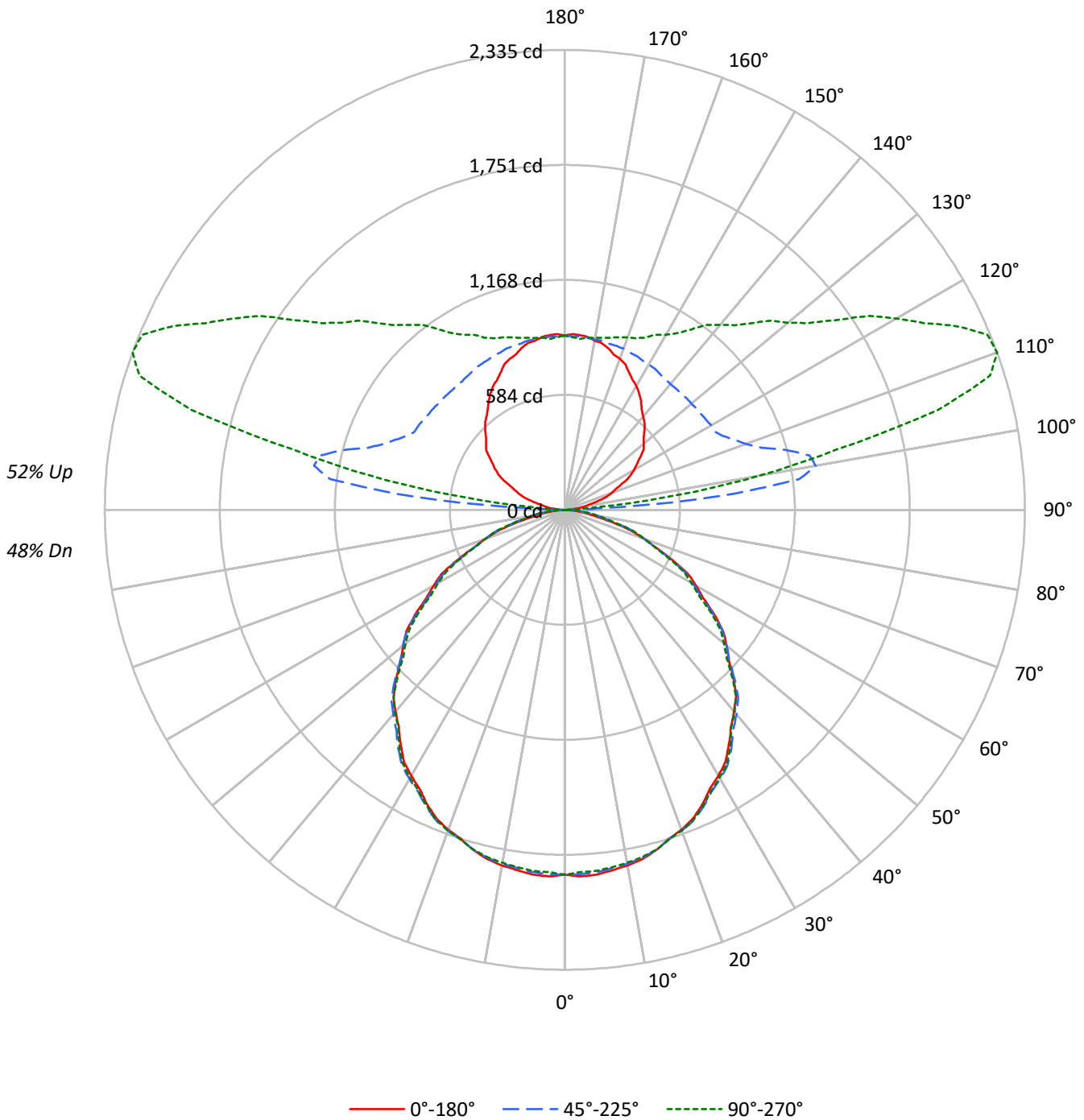
Input Watts (W): 97.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	40
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°	17086	17086	17086
5°	17214	17103	17040
10°	17173	17092	17044
15°	17082	17082	17066
20°	16970	17021	17021
25°	16810	16932	16879
30°	16606	16806	16733
35°	16359	16609	16494
40°	16088	16315	16150
45°	15796	15908	15661
50°	15383	15383	15136
55°	14893	14700	14480
60°	14175	13891	13670
65°	13101	12839	12728
70°	11470	11564	11519
75°	9229	10209	10270
80°	6562	8655	8745
85°	3991	7262	7262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	1.7
10°-20°	502.9	4.8
20°-30°	761.6	7.2
30°-40°	913.1	8.7
40°-50°	931.1	8.8
50°-60°	812.8	7.7
60°-70°	581.9	5.5
70°-80°	299.7	2.8
80°-90°	75.8	0.7
90°-100°	402.9	3.8
100°-110°	1146.3	10.9
110°-120°	1098.3	10.4
120°-130°	869.3	8.2
130°-140°	697.7	6.6
140°-150°	546.2	5.2
150°-160°	399.7	3.8
160°-170°	247.6	2.3
170°-180°	84.0	0.8
0°-30°	1439.9	13.7
0°-40°	2353.0	22.3
0°-60°	4096.8	38.8
0°-90°	5054.1	47.9
90°-120°	2647.5	25.1
90°-150°	4760.6	45.1
90°-180°	5492.0	52.1
0°-180°	10546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1859	1840	1847	1842	1840	176
15°	1788	1773	1788	1788	1787	504
25°	1651	1640	1663	1658	1658	760
35°	1452	1449	1475	1464	1464	908
45°	1211	1207	1219	1204	1200	932
55°	926	914	914	900	900	825
65°	600	587	588	583	583	594
75°	259	271	286	288	288	280
85°	38	58	69	70	69	51
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°	1851.9	1851.9	1851.9	1851.9	1851.9
2.5°	1862.9	1846.8	1851.9	1847.6	1840.9
5°	1858.7	1840.3	1846.7	1841.6	1839.9
7.5°	1845.4	1826.9	1835.4	1832.0	1830.3
10°	1833.0	1814.6	1824.4	1821.0	1819.3
12.5°	1816.6	1799.5	1810.7	1807.3	1807.0
15°	1788.4	1773.4	1788.4	1788.4	1786.7
17.5°	1753.1	1739.4	1755.5	1756.5	1755.5
20°	1728.4	1713.3	1733.6	1731.9	1733.6
22.5°	1698.2	1685.8	1707.5	1703.1	1704.8
25°	1651.3	1639.5	1663.3	1658.1	1658.1
27.5°	1595.7	1587.3	1613.2	1607.7	1607.7
30°	1558.7	1550.3	1577.5	1570.7	1570.7
32.5°	1517.5	1511.8	1537.8	1529.5	1529.5
35°	1452.4	1449.0	1474.6	1464.4	1464.4
37.5°	1385.1	1382.1	1405.4	1392.9	1388.9
40°	1335.8	1334.1	1354.6	1340.9	1340.9
42.5°	1286.4	1284.7	1302.5	1286.0	1286.0
45°	1210.6	1207.2	1219.2	1203.6	1200.3
47.5°	1127.9	1124.6	1132.1	1115.2	1113.5
50°	1071.7	1068.3	1071.7	1056.2	1054.5
52.5°	1014.1	1008.0	1008.6	993.2	992.8
55°	925.9	914.2	913.9	900.2	900.2
57.5°	832.7	817.2	818.6	806.9	805.2
60°	768.2	751.4	752.8	742.4	740.8
62.5°	705.1	685.6	689.7	678.0	677.7
65°	600.1	586.7	588.1	583.0	583.0
67.5°	499.3	486.9	495.9	491.8	491.4
70°	425.2	416.9	428.7	428.6	427.0
72.5°	356.7	356.3	371.1	371.1	372.1
75°	258.9	270.7	286.4	288.1	288.1
77.5°	172.8	193.6	210.9	211.6	211.3
80°	123.5	146.9	162.9	166.3	164.6
82.5°	83.7	108.5	121.7	125.1	123.5
85°	37.7	57.8	68.6	70.3	68.6
87.5°	11.0	23.0	27.4	27.4	24.7
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)