

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: P562078

Luminaire Tested: **SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562078
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 10468.6 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

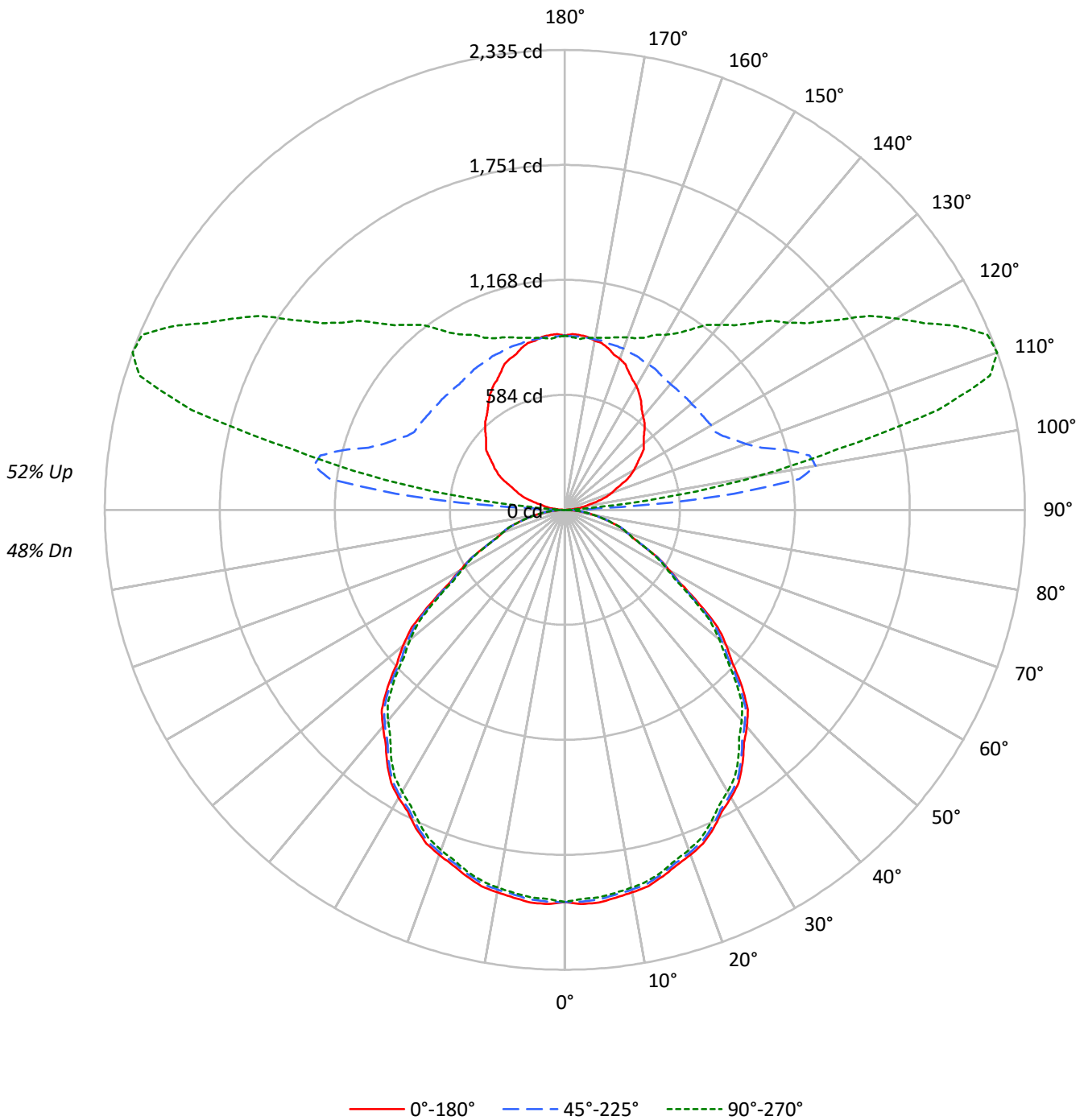
Input Watts (W): 97.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	67	67	67	54	54	54	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39	34
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34	29
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	26	22
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18	16
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18368	18368	18368
5°	18533	18390	18294
10°	18474	18345	18249
15°	18393	18278	18180
20°	18300	18183	18048
25°	18171	18049	17839
30°	17976	17848	17592
35°	17710	17556	17305
40°	17306	17120	16811
45°	16601	16310	15974
50°	15358	14989	14694
55°	13404	13102	12825
60°	11295	11201	10979
65°	9769	9809	9732
70°	8975	9021	9021
75°	8620	8620	8680
80°	8108	8198	8108
85°	6531	7262	7262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	1.8
10°-20°	538.6	5.1
20°-30°	812.4	7.8
30°-40°	968.0	9.2
40°-50°	954.4	9.1
50°-60°	729.4	7.0
60°-70°	451.4	4.3
70°-80°	256.4	2.4
80°-90°	78.0	0.7
90°-100°	402.9	3.8
100°-110°	1146.3	10.9
110°-120°	1098.3	10.5
120°-130°	869.3	8.3
130°-140°	697.7	6.7
140°-150°	546.2	5.2
150°-160°	399.7	3.8
160°-170°	247.6	2.4
170°-180°	84.0	0.8
0°-30°	1539.3	14.7
0°-40°	2507.3	24.0
0°-60°	4191.0	40.0
0°-90°	4976.7	47.5
90°-120°	2647.5	25.3
90°-150°	4760.6	45.5
90°-180°	5492.0	52.5
0°-180°	10468.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	2001	1979	1986	1979	1975	190
15°	1926	1906	1914	1907	1903	543
25°	1785	1763	1773	1754	1752	821
35°	1572	1554	1559	1538	1536	981
45°	1272	1256	1250	1228	1224	975
55°	833	820	814	801	797	747
65°	448	444	449	446	446	453
75°	242	242	242	244	244	255
85°	62	65	69	69	69	72
90°	0	0	0	0	0	4
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°	1990.8	1990.8	1990.8	1990.8	1990.8
2.5°	2003.1	1985.7	1990.8	1986.4	1977.1
5°	2001.1	1979.3	1985.6	1978.7	1975.3
7.5°	1985.6	1964.2	1970.5	1963.6	1961.6
10°	1971.9	1951.8	1958.2	1951.3	1947.9
12.5°	1956.8	1935.4	1943.1	1934.8	1931.4
15°	1925.6	1905.5	1913.6	1906.7	1903.3
17.5°	1891.3	1869.9	1877.9	1870.0	1865.6
20°	1863.9	1843.8	1851.9	1839.8	1838.2
22.5°	1833.7	1813.6	1821.7	1805.6	1805.2
25°	1785.0	1763.2	1773.0	1754.1	1752.4
27.5°	1727.1	1706.9	1715.0	1695.8	1693.8
30°	1687.3	1667.2	1675.3	1654.6	1651.3
32.5°	1642.0	1623.2	1630.0	1609.4	1607.4
35°	1572.4	1553.9	1558.7	1538.1	1536.4
37.5°	1493.2	1476.4	1479.1	1456.4	1454.8
40°	1436.9	1420.2	1421.5	1397.4	1395.8
42.5°	1375.2	1358.4	1357.0	1333.0	1331.3
45°	1272.3	1255.5	1250.0	1227.7	1224.3
47.5°	1155.0	1138.3	1127.9	1109.7	1107.4
50°	1070.0	1053.2	1044.3	1028.7	1023.7
52.5°	978.1	961.3	953.7	939.5	934.5
55°	833.3	819.9	814.5	800.7	797.3
57.5°	695.8	686.8	685.2	671.8	670.4
60°	612.1	607.1	607.0	595.0	595.0
62.5°	540.8	537.1	539.8	531.9	530.5
65°	447.5	444.2	449.3	445.8	445.8
67.5°	373.8	373.8	376.9	375.5	375.5
70°	332.7	332.7	334.4	334.4	334.4
72.5°	295.6	294.3	298.7	298.7	297.3
75°	241.8	241.8	241.8	243.5	243.5
77.5°	188.3	188.6	190.0	189.6	188.3
80°	152.6	154.3	154.3	152.6	152.6
82.5°	116.9	118.6	118.7	118.3	116.9
85°	61.7	65.1	68.6	68.6	68.6
87.5°	17.8	23.2	27.4	27.4	26.1
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)