

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: P562130

Luminaire Tested: **SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562130
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-PR1-150U-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 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

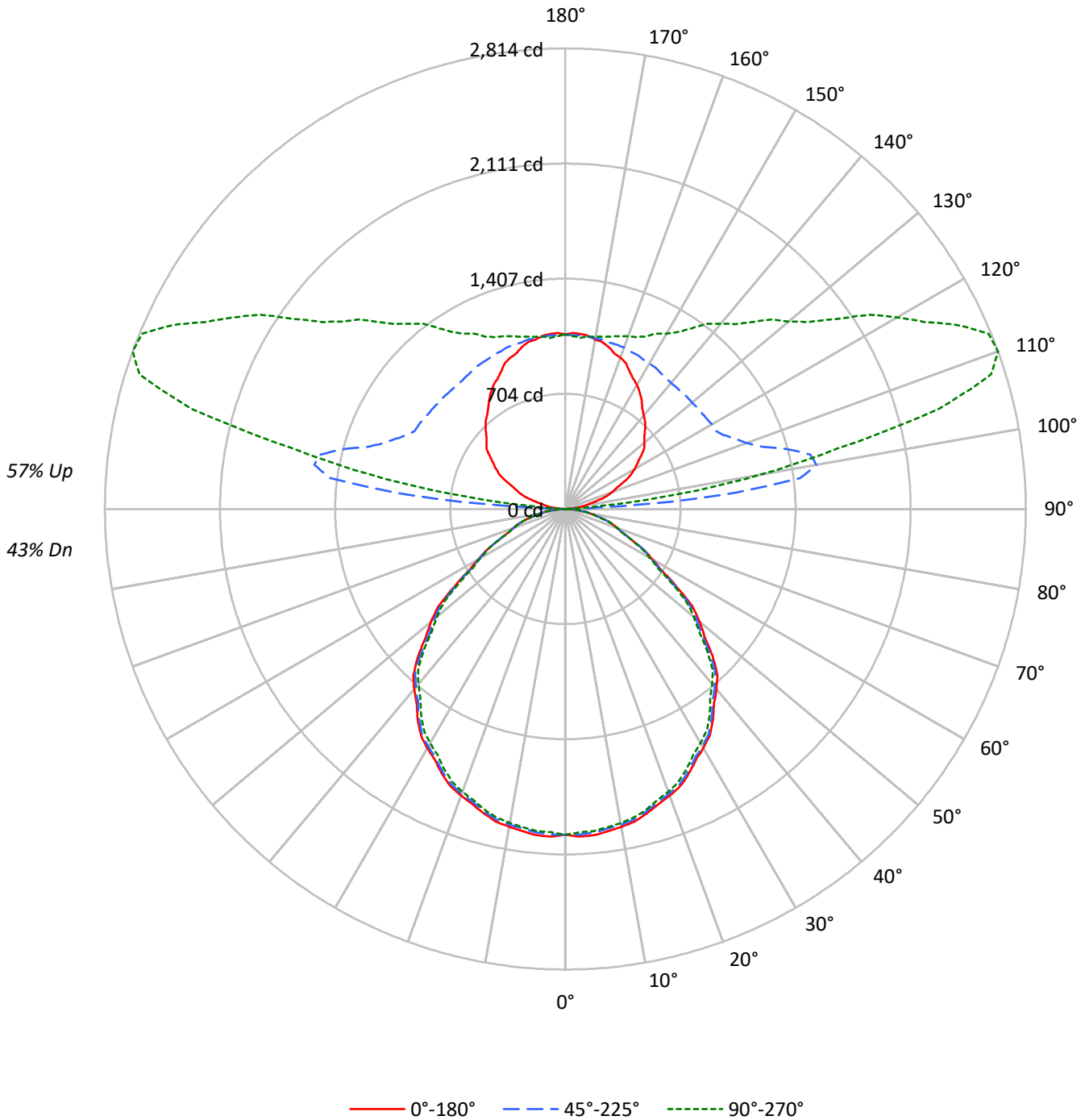
Lumens per Lamp: N/A
Luminaire Lumens: 11595.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	89	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	43	38	34	36	32	29	28	26	23	20
6	62	50	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	34	29	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14	12

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	1.6
10°-20°	538.6	4.6
20°-30°	812.4	7.0
30°-40°	968.0	8.3
40°-50°	954.4	8.2
50°-60°	729.4	6.3
60°-70°	451.4	3.9
70°-80°	256.4	2.2
80°-90°	78.0	0.7
90°-100°	485.5	4.2
100°-110°	1381.5	11.9
110°-120°	1323.6	11.4
120°-130°	1047.6	9.0
130°-140°	840.8	7.3
140°-150°	658.3	5.7
150°-160°	481.7	4.2
160°-170°	298.3	2.6
170°-180°	101.2	0.9
0°-30°	1539.3	13.3
0°-40°	2507.3	21.6
0°-60°	4191.0	36.1
0°-90°	4976.7	42.9
90°-120°	3190.6	27.5
90°-150°	5737.2	49.5
90°-180°	6618.0	57.1
0°-180°	11595.2	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	5
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	

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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°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)