

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: P562132

Luminaire Tested: **SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562132
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11997.8 lumens
Efficiency: N/A
Efficacy: 112.3 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

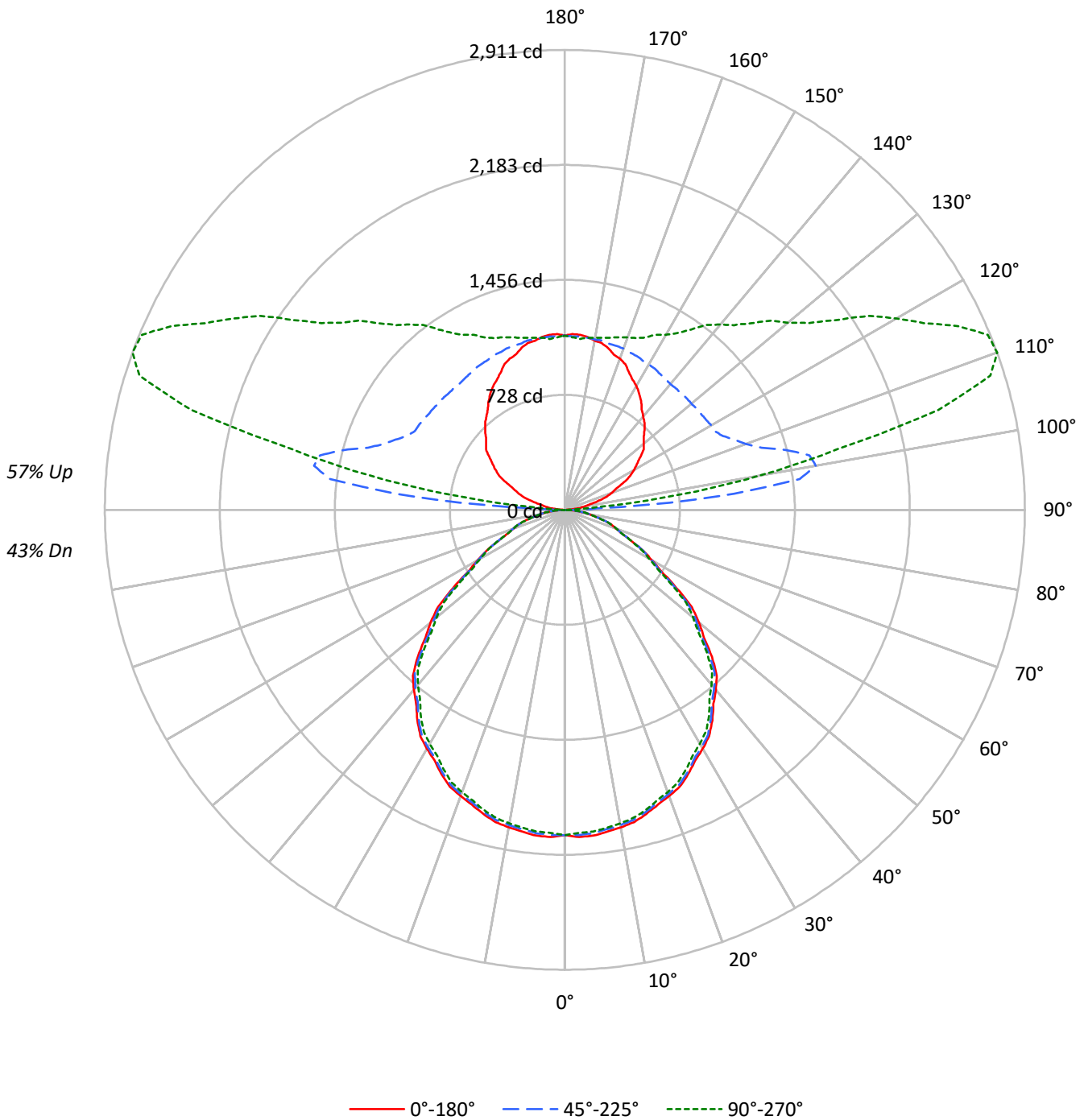
Input Watts (W): 106.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	19005	19005	19005
5°	19176	19029	18929
10°	19116	18983	18882
15°	19032	18913	18811
20°	18936	18814	18674
25°	18802	18676	18459
30°	18600	18467	18203
35°	18325	18165	17905
40°	17907	17714	17394
45°	17177	16876	16529
50°	15891	15509	15203
55°	13870	13557	13270
60°	11688	11590	11361
65°	10110	10149	10071
70°	9285	9334	9334
75°	8919	8919	8980
80°	8389	8485	8389
85°	6764	7516	7516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	1.6
10°-20°	557.3	4.6
20°-30°	840.6	7.0
30°-40°	1001.6	8.3
40°-50°	987.5	8.2
50°-60°	754.7	6.3
60°-70°	467.0	3.9
70°-80°	265.3	2.2
80°-90°	80.7	0.7
90°-100°	502.4	4.2
100°-110°	1429.4	11.9
110°-120°	1369.6	11.4
120°-130°	1083.9	9.0
130°-140°	870.0	7.3
140°-150°	681.1	5.7
150°-160°	498.4	4.2
160°-170°	308.7	2.6
170°-180°	104.8	0.9
0°-30°	1592.8	13.3
0°-40°	2594.4	21.6
0°-60°	4336.5	36.1
0°-90°	5149.5	42.9
90°-120°	3301.4	27.5
90°-150°	5936.5	49.5
90°-180°	6848.0	57.1
0°-180°	11997.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2070	2048	2055	2047	2044	196
15°	1992	1972	1980	1973	1969	562
25°	1847	1824	1835	1815	1813	850
35°	1627	1608	1613	1592	1590	1015
45°	1316	1299	1293	1270	1267	1009
55°	862	848	843	828	825	773
65°	463	460	465	461	461	469
75°	250	250	250	252	252	264
85°	64	67	71	71	71	74
90°	0	0	0	0	0	5
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	2072.7	2054.6	2059.9	2055.4	2045.7
5°	2070.5	2048.0	2054.6	2047.4	2043.9
7.5°	2054.6	2032.4	2039.0	2031.8	2029.7
10°	2040.4	2019.6	2026.2	2019.0	2015.5
12.5°	2024.8	2002.6	2010.6	2002.0	1998.5
15°	1992.5	1971.7	1980.1	1972.9	1969.4
17.5°	1957.0	1934.8	1943.1	1934.9	1930.4
20°	1928.6	1907.8	1916.2	1903.7	1902.0
22.5°	1897.4	1876.6	1885.0	1868.3	1867.9
25°	1847.0	1824.4	1834.6	1815.0	1813.3
27.5°	1787.0	1766.2	1774.6	1754.7	1752.6
30°	1745.9	1725.0	1733.4	1712.1	1708.6
32.5°	1699.0	1679.6	1686.6	1665.3	1663.2
35°	1627.0	1607.9	1612.8	1591.5	1589.7
37.5°	1545.0	1527.7	1530.5	1507.0	1505.3
40°	1486.8	1469.5	1470.8	1446.0	1444.2
42.5°	1422.9	1405.6	1404.1	1379.3	1377.5
45°	1316.5	1299.1	1293.4	1270.3	1266.8
47.5°	1195.1	1177.8	1167.1	1148.2	1145.8
50°	1107.1	1089.8	1080.5	1064.4	1059.2
52.5°	1012.0	994.7	986.8	972.2	967.0
55°	862.3	848.4	842.8	828.5	825.0
57.5°	720.0	710.6	709.0	695.1	693.7
60°	633.4	628.2	628.1	615.7	615.7
62.5°	559.6	555.8	558.5	550.3	548.9
65°	463.1	459.6	464.9	461.3	461.3
67.5°	386.8	386.8	390.0	388.6	388.6
70°	344.2	344.2	346.0	346.0	346.0
72.5°	305.9	304.5	309.1	309.0	307.7
75°	250.2	250.2	250.2	251.9	251.9
77.5°	194.8	195.2	196.6	196.2	194.8
80°	157.9	159.6	159.7	157.9	157.9
82.5°	121.0	122.7	122.8	122.4	121.0
85°	63.9	67.3	71.0	71.0	71.0
87.5°	18.5	24.0	28.4	28.4	27.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)