

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: P562134

Luminaire Tested: **SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562134
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12303.3 lumens
Efficiency: N/A
Efficacy: 115.4 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

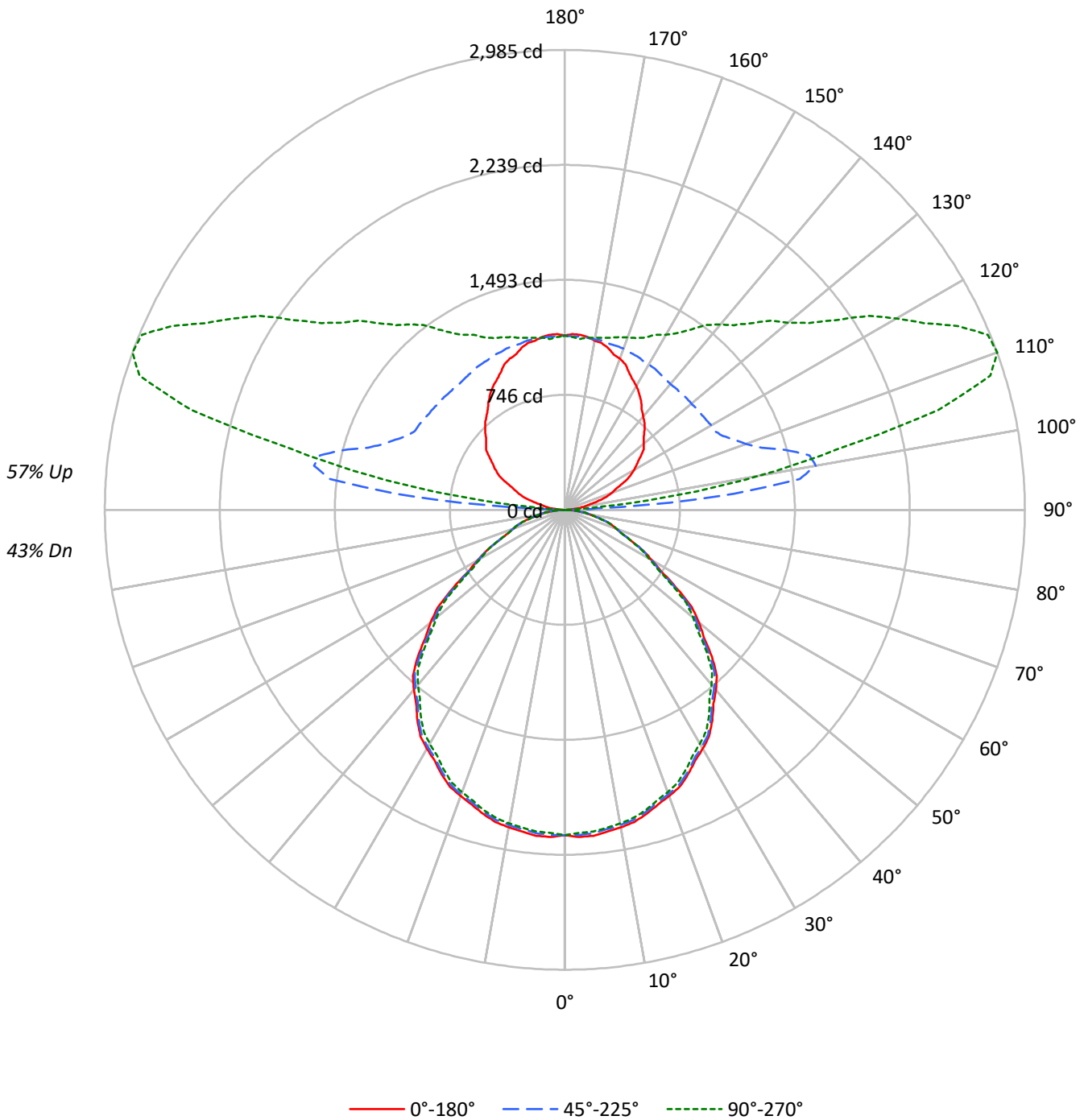
Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	19489	19489	19489
5°	19665	19513	19412
10°	19602	19466	19364
15°	19516	19395	19291
20°	19418	19293	19150
25°	19281	19152	18930
30°	19073	18938	18666
35°	18791	18628	18361
40°	18363	18166	17837
45°	17615	17307	16950
50°	16295	15904	15591
55°	14223	13901	13608
60°	11985	11885	11649
65°	10368	10407	10326
70°	9522	9571	9571
75°	9144	9144	9211
80°	8602	8698	8602
85°	6934	7707	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	1.6
10°-20°	571.5	4.6
20°-30°	862.0	7.0
30°-40°	1027.1	8.3
40°-50°	1012.6	8.2
50°-60°	773.9	6.3
60°-70°	478.9	3.9
70°-80°	272.0	2.2
80°-90°	82.8	0.7
90°-100°	515.2	4.2
100°-110°	1465.8	11.9
110°-120°	1404.4	11.4
120°-130°	1111.5	9.0
130°-140°	892.2	7.3
140°-150°	698.5	5.7
150°-160°	511.1	4.2
160°-170°	316.6	2.6
170°-180°	107.4	0.9
0°-30°	1633.3	13.3
0°-40°	2660.4	21.6
0°-60°	4447.0	36.1
0°-90°	5280.6	42.9
90°-120°	3385.4	27.5
90°-150°	6087.6	49.5
90°-180°	7023.0	57.1
0°-180°	12303.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2123	2100	2107	2100	2096	201
15°	2043	2022	2030	2023	2020	577
25°	1894	1871	1881	1861	1860	872
35°	1668	1649	1654	1632	1630	1041
45°	1350	1332	1326	1303	1299	1034
55°	884	870	864	850	846	792
65°	475	471	477	473	473	481
75°	256	256	256	258	258	271
85°	66	69	73	73	73	76
90°	0	0	0	0	0	5
95°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2112.4	2112.4	2112.4	2112.4	2112.4
2.5°	2125.4	2106.9	2112.4	2107.8	2097.8
5°	2123.3	2100.1	2106.9	2099.5	2096.0
7.5°	2106.9	2084.1	2090.9	2083.6	2081.4
10°	2092.3	2071.0	2077.8	2070.4	2066.9
12.5°	2076.3	2053.6	2061.8	2053.0	2049.4
15°	2043.2	2021.9	2030.5	2023.1	2019.6
17.5°	2006.8	1984.1	1992.6	1984.2	1979.5
20°	1977.7	1956.4	1965.0	1952.2	1950.4
22.5°	1945.7	1924.3	1933.0	1915.8	1915.5
25°	1894.0	1870.9	1881.3	1861.2	1859.5
27.5°	1832.5	1811.2	1819.8	1799.4	1797.2
30°	1790.3	1769.0	1777.6	1755.7	1752.1
32.5°	1742.3	1722.4	1729.5	1707.7	1705.5
35°	1668.4	1648.8	1653.9	1632.0	1630.2
37.5°	1584.4	1566.6	1569.4	1545.4	1543.6
40°	1524.7	1506.9	1508.3	1482.8	1481.0
42.5°	1459.2	1441.4	1439.9	1414.4	1412.6
45°	1350.0	1332.2	1326.4	1302.6	1299.1
47.5°	1225.6	1207.8	1196.8	1177.5	1175.0
50°	1135.3	1117.5	1108.0	1091.5	1086.2
52.5°	1037.8	1020.0	1012.0	996.9	991.6
55°	884.2	870.0	864.2	849.6	846.0
57.5°	738.3	728.7	727.0	712.8	711.4
60°	649.5	644.2	644.1	631.3	631.3
62.5°	573.8	569.9	572.8	564.4	562.9
65°	474.9	471.3	476.7	473.0	473.0
67.5°	396.6	396.6	399.9	398.5	398.5
70°	353.0	353.0	354.8	354.8	354.8
72.5°	313.7	312.2	316.9	316.9	315.5
75°	256.5	256.5	256.5	258.4	258.4
77.5°	199.8	200.1	201.6	201.2	199.8
80°	161.9	163.7	163.7	161.9	161.9
82.5°	124.1	125.9	125.9	125.5	124.1
85°	65.5	69.1	72.8	72.8	72.8
87.5°	18.9	24.6	29.1	29.1	27.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)