

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: P523976

Luminaire Tested: **SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523976
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 12334.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

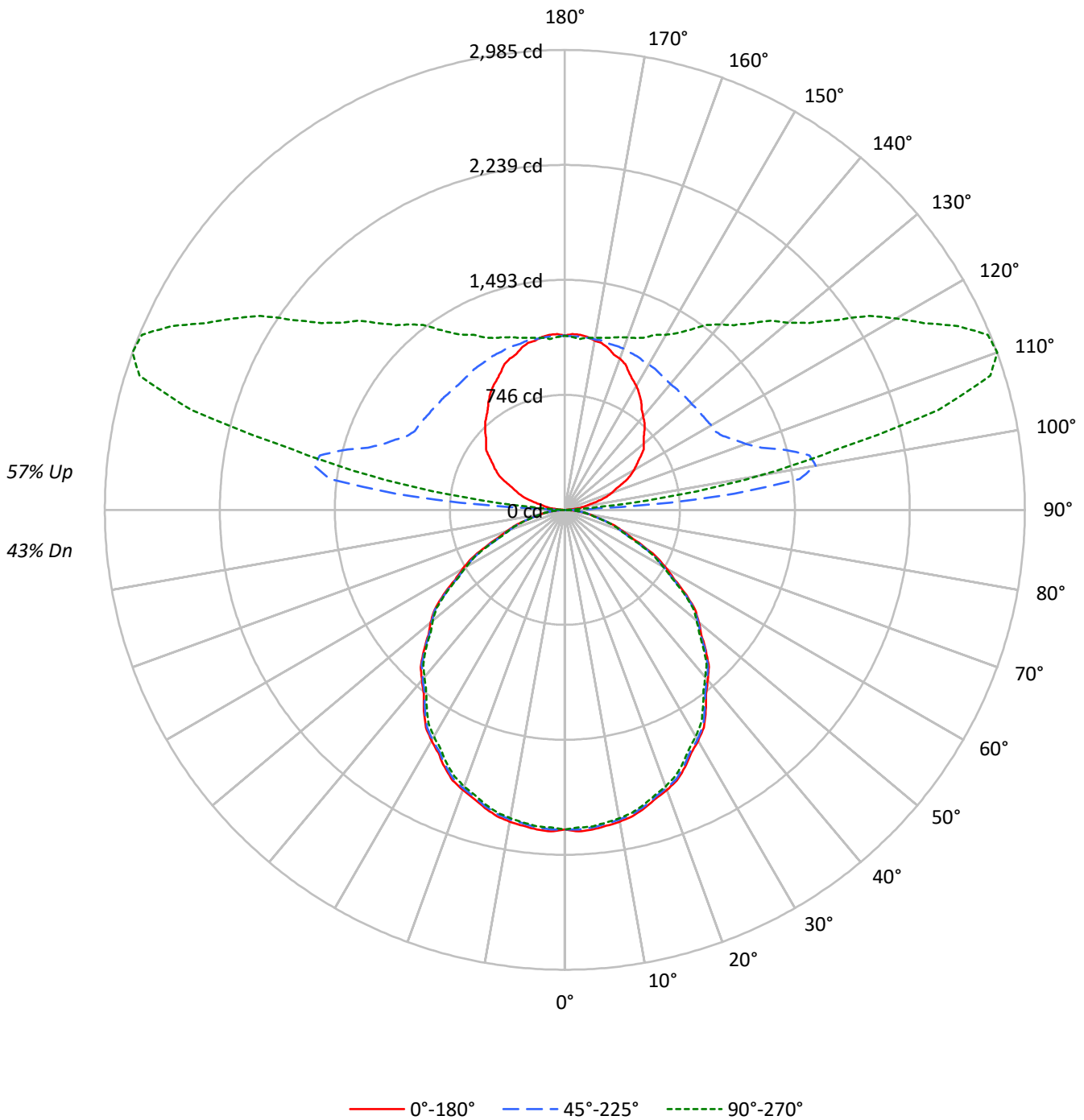
Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37				
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31				
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26				
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23				
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20				
6	62	50	42	37	57	46	39	34	39	33	29	32	28	25	25	23	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15				
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14				
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19149	19149	19149
5°	19290	19171	19104
10°	19257	19120	19035
15°	19129	19025	18921
20°	19002	18895	18752
25°	18777	18647	18461
30°	18429	18333	18099
35°	17947	17824	17599
40°	17373	17264	17066
45°	16898	16779	16614
50°	16293	16188	16031
55°	15448	15244	15127
60°	14064	13660	13594
65°	12389	11874	11835
70°	10696	10256	10256
75°	9208	9079	8947
80°	8119	8214	8023
85°	6352	6934	6934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	1.6
10°-20°	560.4	4.5
20°-30°	839.4	6.8
30°-40°	984.5	8.0
40°-50°	987.6	8.0
50°-60°	842.5	6.8
60°-70°	549.5	4.5
70°-80°	275.7	2.2
80°-90°	76.3	0.6
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	7.2
140°-150°	698.5	5.7
150°-160°	511.1	4.1
160°-170°	316.6	2.6
170°-180°	107.4	0.9
0°-30°	1596.0	12.9
0°-40°	2580.5	20.9
0°-60°	4410.6	35.8
0°-90°	5312.1	43.1
90°-120°	3385.4	27.4
90°-150°	6087.6	49.4
90°-180°	7023.0	56.9
0°-180°	12334.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2083	2063	2070	2063	2063	198
15°	2003	1983	1992	1984	1981	565
25°	1844	1823	1832	1815	1814	848
35°	1593	1577	1582	1564	1562	995
45°	1295	1286	1286	1273	1273	997
55°	960	957	948	942	940	854
65°	568	557	544	540	542	566
75°	258	258	255	253	251	280
85°	60	65	66	66	66	71
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°	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2088.6	2071.5	2075.5	2072.4	2063.8
5°	2082.8	2063.2	2070.0	2062.7	2062.7
7.5°	2068.6	2047.2	2054.0	2046.7	2046.4
10°	2055.5	2034.1	2040.9	2033.6	2031.8
12.5°	2036.5	2015.2	2023.5	2014.7	2014.4
15°	2002.7	1983.2	1991.8	1984.4	1980.9
17.5°	1964.5	1943.2	1953.6	1943.4	1942.0
20°	1935.4	1914.1	1924.5	1909.9	1909.9
22.5°	1900.5	1879.1	1891.0	1872.1	1872.1
25°	1844.5	1823.1	1831.7	1815.3	1813.5
27.5°	1777.9	1756.9	1765.9	1747.3	1747.0
30°	1729.9	1710.3	1720.8	1700.7	1698.9
32.5°	1677.5	1659.3	1666.9	1646.9	1645.1
35°	1593.4	1577.4	1582.5	1564.3	1562.5
37.5°	1505.0	1488.7	1494.5	1478.8	1478.1
40°	1442.5	1431.8	1433.4	1420.6	1417.0
42.5°	1384.3	1372.2	1373.7	1361.0	1360.2
45°	1295.1	1286.2	1286.0	1273.3	1273.3
47.5°	1200.5	1193.8	1191.8	1181.2	1180.9
50°	1135.1	1129.7	1127.8	1118.6	1116.9
52.5°	1066.7	1064.2	1057.9	1050.3	1049.9
55°	960.4	956.9	947.7	942.2	940.4
57.5°	845.1	838.0	827.6	819.7	821.1
60°	762.2	755.0	740.3	736.7	736.7
62.5°	682.1	673.6	658.8	653.8	656.7
65°	567.5	556.9	543.9	540.3	542.1
67.5°	463.5	453.9	439.8	439.8	438.4
70°	396.5	391.2	380.2	380.2	380.2
72.5°	336.9	334.4	326.3	326.3	324.9
75°	258.3	258.3	254.7	252.8	251.0
77.5°	193.5	194.3	192.4	190.6	187.4
80°	152.8	156.4	154.6	152.8	151.0
82.5°	115.0	118.5	118.2	115.0	114.6
85°	60.0	65.4	65.5	65.5	65.5
87.5°	16.0	21.7	23.3	23.3	24.7
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)