

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: P563657

Luminaire Tested: **SQ4-PP3-125U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563657
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19681.5 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

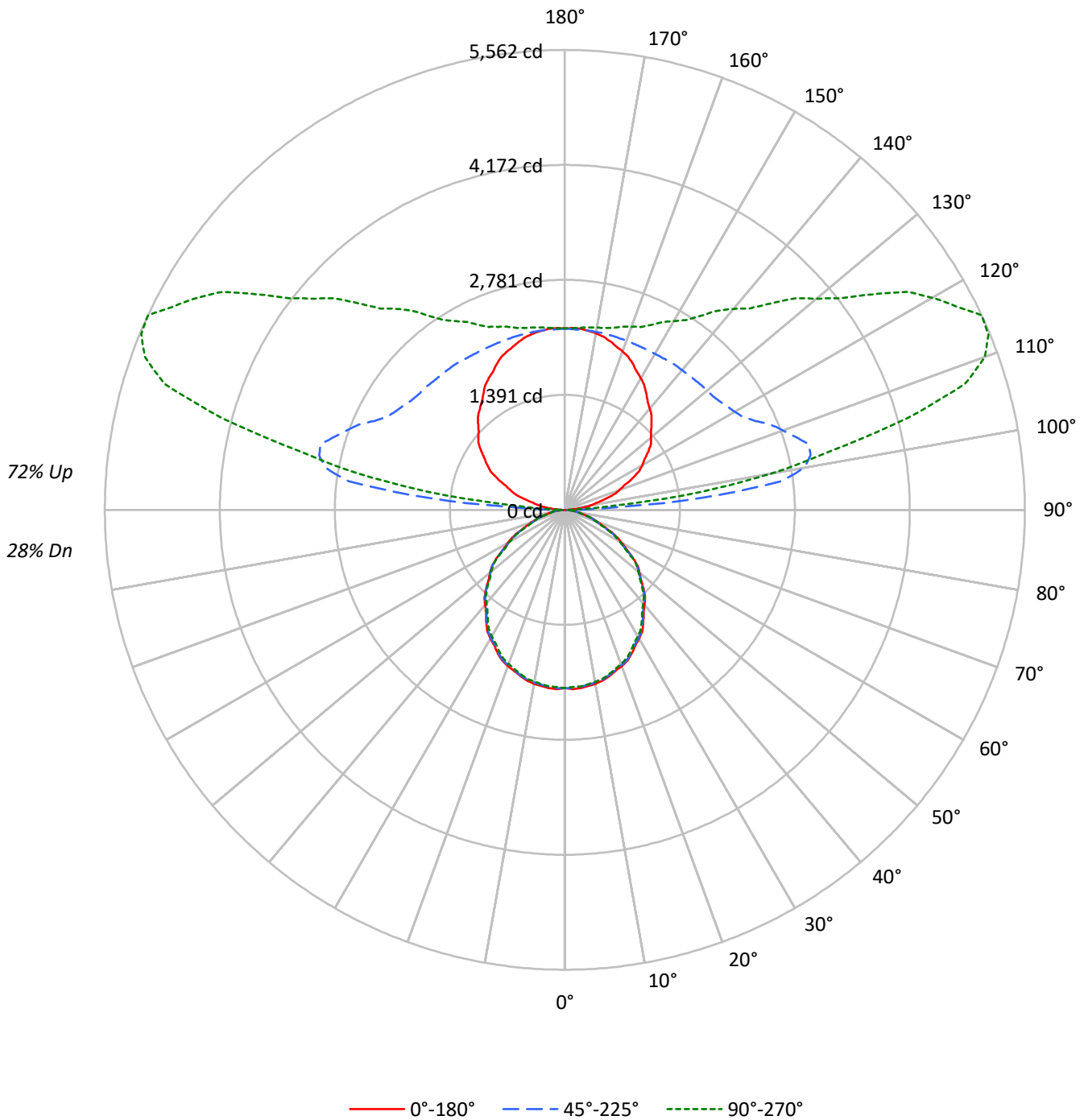
Input Watts (W): 146.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6383	6350	6269
35°	6216	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4291	4113	4099
70°	3706	3552	3552
75°	3189	3144	3099
80°	2812	2846	2779
85°	2202	2399	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.0
10°-20°	582.3	3.0
20°-30°	872.2	4.4
30°-40°	1023.1	5.2
40°-50°	1026.2	5.2
50°-60°	875.5	4.4
60°-70°	570.9	2.9
70°-80°	286.5	1.5
80°-90°	84.4	0.4
90°-100°	1025.9	5.2
100°-110°	2763.4	14.0
110°-120°	2900.1	14.7
120°-130°	2353.3	12.0
130°-140°	1845.6	9.4
140°-150°	1417.0	7.2
150°-160°	1018.8	5.2
160°-170°	622.4	3.2
170°-180°	209.9	1.1
0°-30°	1658.4	8.4
0°-40°	2681.5	13.6
0°-60°	4583.2	23.3
0°-90°	5525.1	28.1
90°-120°	6689.3	34.0
90°-150°	12305.3	62.5
90°-180°	14156.0	71.9
0°-180°	19681.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2164	2144	2151	2143	2143	206
15°	2081	2061	2070	2062	2058	587
25°	1917	1894	1903	1886	1884	881
35°	1656	1639	1644	1626	1624	1034
45°	1346	1337	1336	1323	1323	1036
55°	998	994	985	979	977	887
65°	590	579	565	561	563	589
75°	268	268	265	263	261	291
85°	62	68	68	68	68	73
90°	6	16	34	36	36	13
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2170.3	2152.5	2156.7	2153.5	2144.6
5°	2164.2	2143.9	2151.0	2143.4	2143.4
7.5°	2149.5	2127.3	2134.4	2126.8	2126.4
10°	2135.9	2113.7	2120.8	2113.2	2111.3
12.5°	2116.2	2094.1	2102.6	2093.5	2093.2
15°	2081.1	2060.7	2069.7	2062.1	2058.4
17.5°	2041.4	2019.2	2030.0	2019.4	2017.9
20°	2011.1	1989.0	1999.8	1984.7	1984.7
22.5°	1974.8	1952.7	1965.0	1945.4	1945.4
25°	1916.6	1894.5	1903.4	1886.3	1884.5
27.5°	1847.4	1825.6	1835.0	1815.7	1815.3
30°	1797.5	1777.2	1788.1	1767.3	1765.4
32.5°	1743.1	1724.3	1732.1	1711.3	1709.5
35°	1655.8	1639.2	1644.4	1625.5	1623.7
37.5°	1563.9	1546.9	1553.0	1536.7	1535.9
40°	1498.9	1487.8	1489.5	1476.1	1472.4
42.5°	1438.4	1425.8	1427.5	1414.2	1413.5
45°	1345.8	1336.6	1336.3	1323.1	1323.1
47.5°	1247.5	1240.5	1238.4	1227.5	1227.1
50°	1179.5	1173.9	1171.9	1162.4	1160.6
52.5°	1108.4	1105.8	1099.3	1091.4	1091.0
55°	998.0	994.3	984.8	979.1	977.2
57.5°	878.2	870.8	860.0	851.7	853.2
60°	792.0	784.6	769.3	765.5	765.5
62.5°	708.8	699.9	684.6	679.4	682.4
65°	589.7	578.6	565.2	561.4	563.3
67.5°	481.6	471.6	457.0	457.0	455.5
70°	412.1	406.5	395.0	395.0	395.0
72.5°	350.1	347.5	339.1	339.1	337.6
75°	268.4	268.4	264.6	262.7	260.8
77.5°	201.1	201.9	200.0	198.0	194.7
80°	158.8	162.5	160.7	158.7	156.9
82.5°	119.5	123.2	122.9	119.5	119.1
85°	62.4	67.9	68.0	68.0	68.0
87.5°	17.8	25.9	30.9	31.5	33.0
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)