

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: P564406

Luminaire Tested: **SQ4-PR1-125U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564406
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

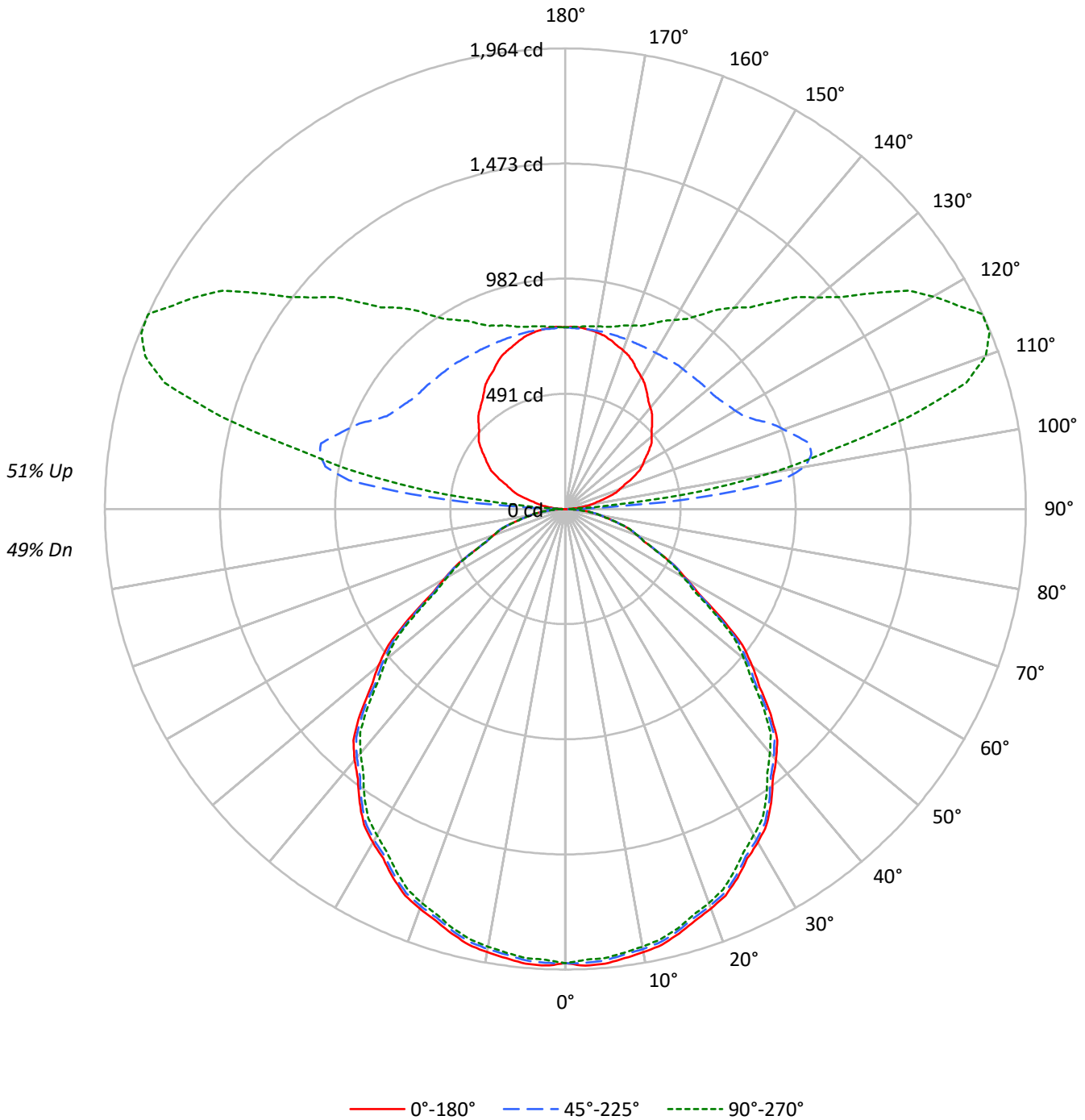
Lumens per Lamp: N/A
Luminaire Lumens: 9844.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17807	17694	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17234	17083	16838
40°	16841	16659	16358
45°	16155	15871	15545
50°	14945	14586	14297
55°	13044	12749	12481
60°	10992	10900	10684
65°	9507	9545	9470
70°	8732	8778	8778
75°	8388	8388	8445
80°	7890	7980	7890
85°	6362	7061	7061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	1.9
10°-20°	524.1	5.3
20°-30°	790.6	8.0
30°-40°	941.9	9.6
40°-50°	928.7	9.4
50°-60°	709.8	7.2
60°-70°	439.2	4.5
70°-80°	249.5	2.5
80°-90°	77.7	0.8
90°-100°	362.3	3.7
100°-110°	975.9	9.9
110°-120°	1024.2	10.4
120°-130°	831.1	8.4
130°-140°	651.8	6.6
140°-150°	500.4	5.1
150°-160°	359.8	3.7
160°-170°	219.8	2.2
170°-180°	74.1	0.8
0°-30°	1497.9	15.2
0°-40°	2439.8	24.8
0°-60°	4078.3	41.4
0°-90°	4844.7	49.2
90°-120°	2362.3	24.0
90°-150°	4345.6	44.1
90°-180°	4999.0	50.8
0°-180°	9844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1947	1926	1932	1926	1922	185
15°	1874	1854	1862	1855	1852	529
25°	1737	1716	1725	1707	1705	799
35°	1530	1512	1517	1497	1495	955
45°	1238	1222	1216	1195	1191	949
55°	811	798	793	779	776	727
65°	436	432	437	434	434	441
75°	235	235	235	237	237	248
85°	60	63	67	67	67	70
90°	2	6	12	13	13	6
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.2	1937.2	1937.2	1937.2	1937.2
2.5°	1949.2	1932.3	1937.2	1933.0	1923.9
5°	1947.2	1926.0	1932.2	1925.5	1922.2
7.5°	1932.2	1911.3	1917.5	1910.8	1908.8
10°	1918.9	1899.3	1905.5	1898.8	1895.5
12.5°	1904.2	1883.3	1890.8	1882.7	1879.5
15°	1873.8	1854.2	1862.1	1855.4	1852.1
17.5°	1840.4	1819.6	1827.4	1819.7	1815.4
20°	1813.7	1794.2	1802.1	1790.3	1788.7
22.5°	1784.4	1764.8	1772.7	1757.0	1756.7
25°	1737.0	1715.8	1725.3	1706.9	1705.3
27.5°	1680.6	1661.0	1668.9	1650.2	1648.2
30°	1641.9	1622.3	1630.2	1610.1	1606.8
32.5°	1597.8	1579.6	1586.1	1566.1	1564.1
35°	1530.1	1512.1	1516.7	1496.7	1495.0
37.5°	1453.0	1436.7	1439.3	1417.3	1415.6
40°	1398.3	1382.0	1383.2	1359.9	1358.2
42.5°	1338.2	1321.9	1320.5	1297.1	1295.5
45°	1238.1	1221.8	1216.4	1194.6	1191.4
47.5°	1124.0	1107.6	1097.6	1079.8	1077.6
50°	1041.2	1024.9	1016.2	1001.0	996.1
52.5°	951.8	935.4	928.1	914.3	909.4
55°	810.9	797.9	792.6	779.2	775.9
57.5°	677.1	668.3	666.8	653.7	652.4
60°	595.7	590.8	590.7	579.0	579.0
62.5°	526.3	522.7	525.3	517.6	516.3
65°	435.5	432.2	437.2	433.8	433.8
67.5°	363.7	363.7	366.8	365.4	365.4
70°	323.7	323.7	325.4	325.4	325.4
72.5°	287.7	286.4	290.7	290.6	289.3
75°	235.3	235.3	235.3	236.9	236.9
77.5°	183.2	183.5	184.9	184.5	183.2
80°	148.5	150.1	150.2	148.5	148.5
82.5°	113.8	115.4	115.5	115.1	113.8
85°	60.1	63.3	66.7	66.7	66.7
87.5°	17.7	23.7	29.1	29.2	27.9
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)