

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: P563734

Luminaire Tested: **SQ4-PP3-125U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563734
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-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

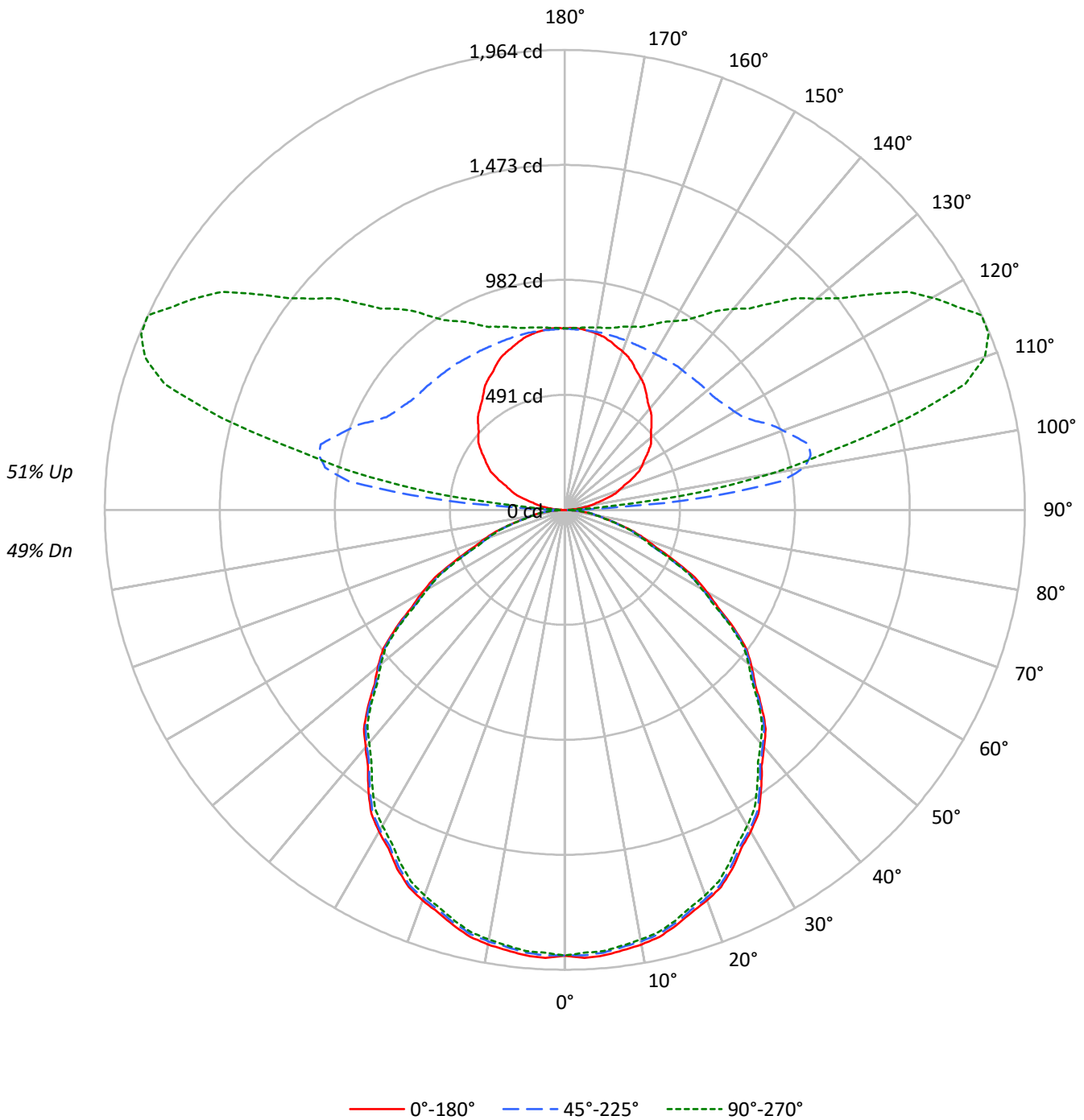
Lumens per Lamp: N/A
Luminaire Lumens: 9872.8 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	56	56	56	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	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17544	17448	17353
20°	17427	17328	17198
25°	17219	17101	16931
30°	16901	16812	16599
35°	16459	16346	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14940	14846	14702
55°	14168	13980	13874
60°	12898	12529	12466
65°	11363	10889	10852
70°	9811	9406	9406
75°	8445	8324	8206
80°	7444	7534	7359
85°	5833	6362	6362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.8
10°-20°	513.9	5.2
20°-30°	769.8	7.8
30°-40°	902.9	9.1
40°-50°	905.7	9.2
50°-60°	772.7	7.8
60°-70°	503.9	5.1
70°-80°	252.8	2.6
80°-90°	71.8	0.7
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	3.6
160°-170°	219.8	2.2
170°-180°	74.1	0.8
0°-30°	1463.7	14.8
0°-40°	2366.6	24.0
0°-60°	4045.0	41.0
0°-90°	4873.5	49.4
90°-120°	2362.3	23.9
90°-150°	4345.6	44.0
90°-180°	4999.0	50.6
0°-180°	9872.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1910	1892	1898	1892	1892	181
15°	1837	1819	1827	1820	1817	518
25°	1692	1672	1680	1665	1663	778
35°	1461	1447	1451	1435	1433	913
45°	1188	1180	1179	1168	1168	915
55°	881	878	869	864	862	783
65°	520	511	499	496	497	519
75°	237	237	234	232	230	257
85°	55	60	60	60	60	65
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°	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1915.4	1899.7	1903.4	1900.5	1892.7
5°	1910.1	1892.1	1898.4	1891.7	1891.7
7.5°	1897.1	1877.5	1883.7	1877.0	1876.7
10°	1885.0	1865.5	1871.7	1865.0	1863.4
12.5°	1867.7	1848.1	1855.7	1847.7	1847.3
15°	1836.7	1818.7	1826.7	1819.9	1816.7
17.5°	1801.6	1782.1	1791.6	1782.3	1781.0
20°	1774.9	1755.4	1764.9	1751.6	1751.6
22.5°	1742.9	1723.3	1734.2	1716.9	1716.9
25°	1691.5	1672.0	1679.9	1664.8	1663.2
27.5°	1630.5	1611.2	1619.5	1602.4	1602.1
30°	1586.4	1568.5	1578.1	1559.7	1558.1
32.5°	1538.4	1521.8	1528.7	1510.3	1508.7
35°	1461.3	1446.6	1451.3	1434.6	1433.0
37.5°	1380.3	1365.2	1370.6	1356.2	1355.6
40°	1322.9	1313.1	1314.5	1302.8	1299.5
42.5°	1269.5	1258.4	1259.8	1248.1	1247.5
45°	1187.7	1179.6	1179.4	1167.7	1167.7
47.5°	1101.0	1094.8	1093.0	1083.3	1083.0
50°	1040.9	1036.1	1034.3	1025.9	1024.3
52.5°	978.2	975.9	970.2	963.2	962.9
55°	880.8	877.5	869.1	864.1	862.5
57.5°	775.0	768.5	759.0	751.7	753.0
60°	699.0	692.4	679.0	675.6	675.6
62.5°	625.6	617.7	604.2	599.6	602.2
65°	520.5	510.7	498.8	495.5	497.1
67.5°	425.1	416.2	403.4	403.3	402.0
70°	363.7	358.8	348.7	348.7	348.7
72.5°	308.9	306.7	299.3	299.2	297.9
75°	236.9	236.9	233.5	231.8	230.2
77.5°	177.5	178.1	176.5	174.8	171.8
80°	140.1	143.4	141.8	140.1	138.5
82.5°	105.4	108.7	108.4	105.4	105.1
85°	55.1	59.9	60.1	60.1	60.1
87.5°	15.1	21.1	23.7	23.9	25.3
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)