

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: P562979

Luminaire Tested: **SQ4-PC3-100U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562979
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

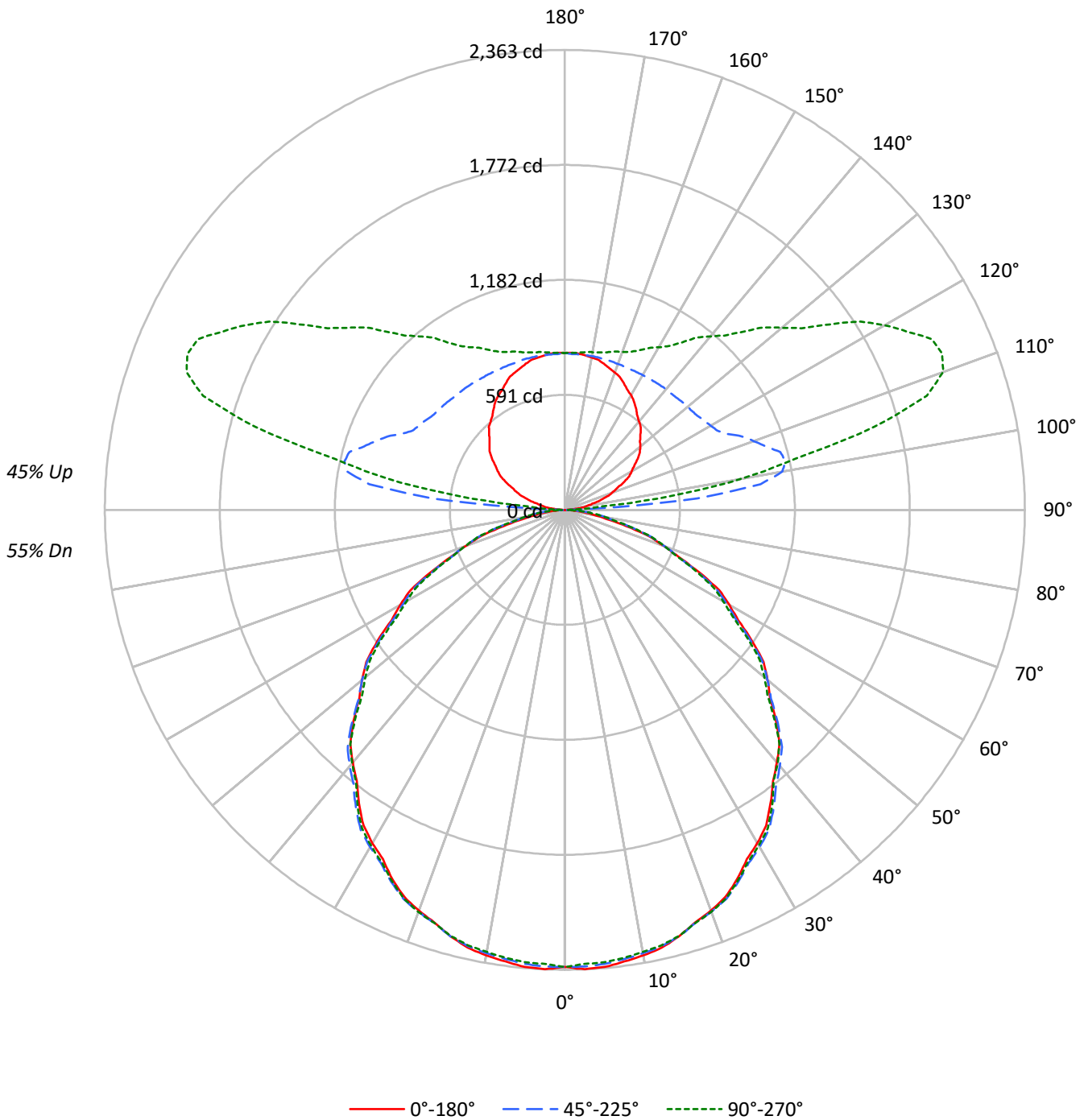
Lumens per Lamp: N/A
Luminaire Lumens: 11646.4 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47		
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14443	14443	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14044	13945
40°	13602	13794	13655
45°	13356	13450	13242
50°	13006	13006	12798
55°	12594	12430	12243
60°	11985	11744	11557
65°	11079	10856	10761
70°	9699	9778	9738
75°	7804	8631	8684
80°	5547	7318	7396
85°	3373	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.9
10°-20°	637.9	5.5
20°-30°	966.0	8.3
30°-40°	1158.1	9.9
40°-50°	1180.8	10.1
50°-60°	1030.8	8.9
60°-70°	738.0	6.3
70°-80°	380.1	3.3
80°-90°	97.8	0.8
90°-100°	377.3	3.2
100°-110°	1041.6	8.9
110°-120°	1074.2	9.2
120°-130°	863.2	7.4
130°-140°	678.4	5.8
140°-150°	520.3	4.5
150°-160°	373.9	3.2
160°-170°	228.7	2.0
170°-180°	77.1	0.7
0°-30°	1826.1	15.7
0°-40°	2984.2	25.6
0°-60°	5195.9	44.6
0°-90°	6411.7	55.1
90°-120°	2493.0	21.4
90°-150°	4554.9	39.1
90°-180°	5235.0	44.9
0°-180°	11646.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2349	2349	2349	2349	2349	
5°	2357	2334	2342	2336	2334	224
15°	2268	2249	2268	2268	2266	640
25°	2094	2079	2110	2103	2103	964
35°	1842	1838	1870	1857	1857	1152
45°	1535	1531	1546	1527	1522	1182
55°	1174	1160	1159	1142	1142	1047
65°	761	744	746	739	739	753
75°	328	343	363	365	365	355
85°	48	73	87	89	87	65
90°	3	5	10	12	13	6
95°	55	204	684	281	183	59
105°	186	286	1146	1750	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1051	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2348.7	2348.7	2348.7	2348.7	2348.7
2.5°	2362.6	2342.2	2348.7	2343.3	2334.8
5°	2357.4	2334.0	2342.2	2335.6	2333.5
7.5°	2340.4	2317.0	2327.8	2323.4	2321.3
10°	2324.8	2301.4	2313.9	2309.5	2307.4
12.5°	2303.9	2282.2	2296.5	2292.1	2291.7
15°	2268.2	2249.1	2268.2	2268.2	2266.1
17.5°	2223.4	2206.0	2226.5	2227.8	2226.5
20°	2192.1	2173.0	2198.6	2196.5	2198.6
22.5°	2153.8	2138.1	2165.6	2160.0	2162.1
25°	2094.3	2079.4	2109.5	2103.0	2103.0
27.5°	2023.8	2013.2	2046.0	2039.0	2039.0
30°	1976.8	1966.2	2000.7	1992.0	1992.0
32.5°	1924.6	1917.4	1950.3	1939.9	1939.9
35°	1842.0	1837.7	1870.3	1857.2	1857.2
37.5°	1756.7	1752.9	1782.4	1766.6	1761.5
40°	1694.1	1692.0	1718.0	1700.6	1700.6
42.5°	1631.5	1629.4	1651.9	1631.0	1631.0
45°	1535.4	1531.1	1546.2	1526.6	1522.3
47.5°	1430.5	1426.3	1435.8	1414.4	1412.3
50°	1359.2	1354.9	1359.2	1339.6	1337.5
52.5°	1286.1	1278.5	1279.2	1259.6	1259.2
55°	1174.4	1159.5	1159.1	1141.7	1141.7
57.5°	1056.0	1036.5	1038.2	1023.4	1021.3
60°	974.3	953.0	954.7	941.6	939.5
62.5°	894.2	869.6	874.7	859.9	859.5
65°	761.2	744.1	745.9	739.4	739.4
67.5°	633.3	617.5	628.9	623.7	623.3
70°	539.3	528.7	543.7	543.6	541.5
72.5°	452.3	451.9	470.6	470.6	471.9
75°	328.4	343.3	363.2	365.4	365.4
77.5°	219.2	245.6	267.5	268.4	267.9
80°	156.6	186.3	206.6	210.9	208.8
82.5°	106.1	137.6	154.4	158.7	156.6
85°	47.8	73.4	87.0	89.1	87.0
87.5°	14.4	30.2	36.9	37.0	33.9
90°	2.6	5.1	10.3	11.6	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.5	281.4	183.0
97.5°	91.8	228.7	1013.9	780.6	565.4
100°	118.6	243.4	1135.6	1143.7	929.4
102.5°	144.4	260.1	1159.3	1413.1	1209.9
105°	185.6	286.4	1145.9	1749.5	1647.4
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.0	1032.5	1946.6	2067.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	365.9	986.1	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2077.9
117.5°	371.2	440.3	881.4	1697.7	1983.0
120°	397.0	465.1	864.9	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.3	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.7	1532.6
130°	505.3	568.3	823.7	1262.5	1455.3
132.5°	523.9	583.9	819.6	1213.6	1388.3
135°	549.1	608.4	813.4	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	593.0	645.9	808.2	1053.0	1162.7
142.5°	610.5	659.4	806.2	1019.7	1116.3
145°	636.8	680.9	803.1	976.2	1050.6
147.5°	662.0	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.6
157.5°	739.1	757.5	796.9	859.2	878.1
160°	751.5	767.9	797.9	849.8	863.6
162.5°	761.8	776.2	798.9	841.5	852.3
165°	777.3	787.4	800.5	831.6	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.2	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.5	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)