

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: P563075

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563075
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

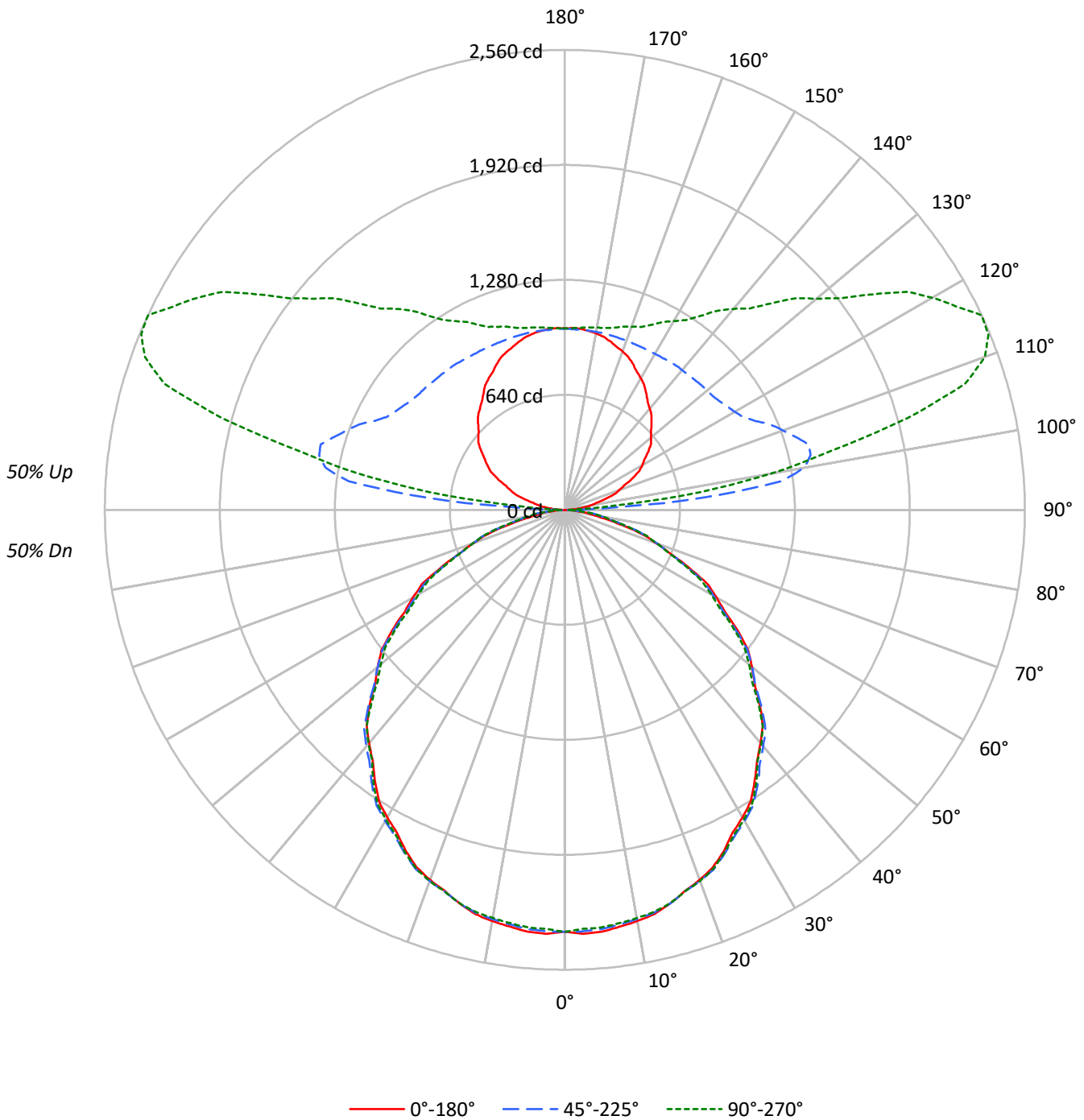
Lumens per Lamp: N/A
Luminaire Lumens: 12928.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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	1.7
10°-20°	637.9	4.9
20°-30°	966.0	7.5
30°-40°	1158.1	9.0
40°-50°	1180.8	9.1
50°-60°	1030.8	8.0
60°-70°	738.0	5.7
70°-80°	380.1	2.9
80°-90°	98.5	0.8
90°-100°	472.2	3.7
100°-110°	1271.9	9.8
110°-120°	1334.8	10.3
120°-130°	1083.2	8.4
130°-140°	849.5	6.6
140°-150°	652.2	5.0
150°-160°	468.9	3.6
160°-170°	286.5	2.2
170°-180°	96.6	0.7
0°-30°	1826.1	14.1
0°-40°	2984.2	23.1
0°-60°	5195.9	40.2
0°-90°	6412.4	49.6
90°-120°	3078.9	23.8
90°-150°	5663.8	43.8
90°-180°	6516.0	50.4
0°-180°	12928.2	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	8	15	17	17	7
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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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	30.7	37.9	38.1	34.7
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)