

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: P563062

Luminaire Tested: **SQ4-PC3-125U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563062
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-835-1D-UNV-STD-W-4
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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

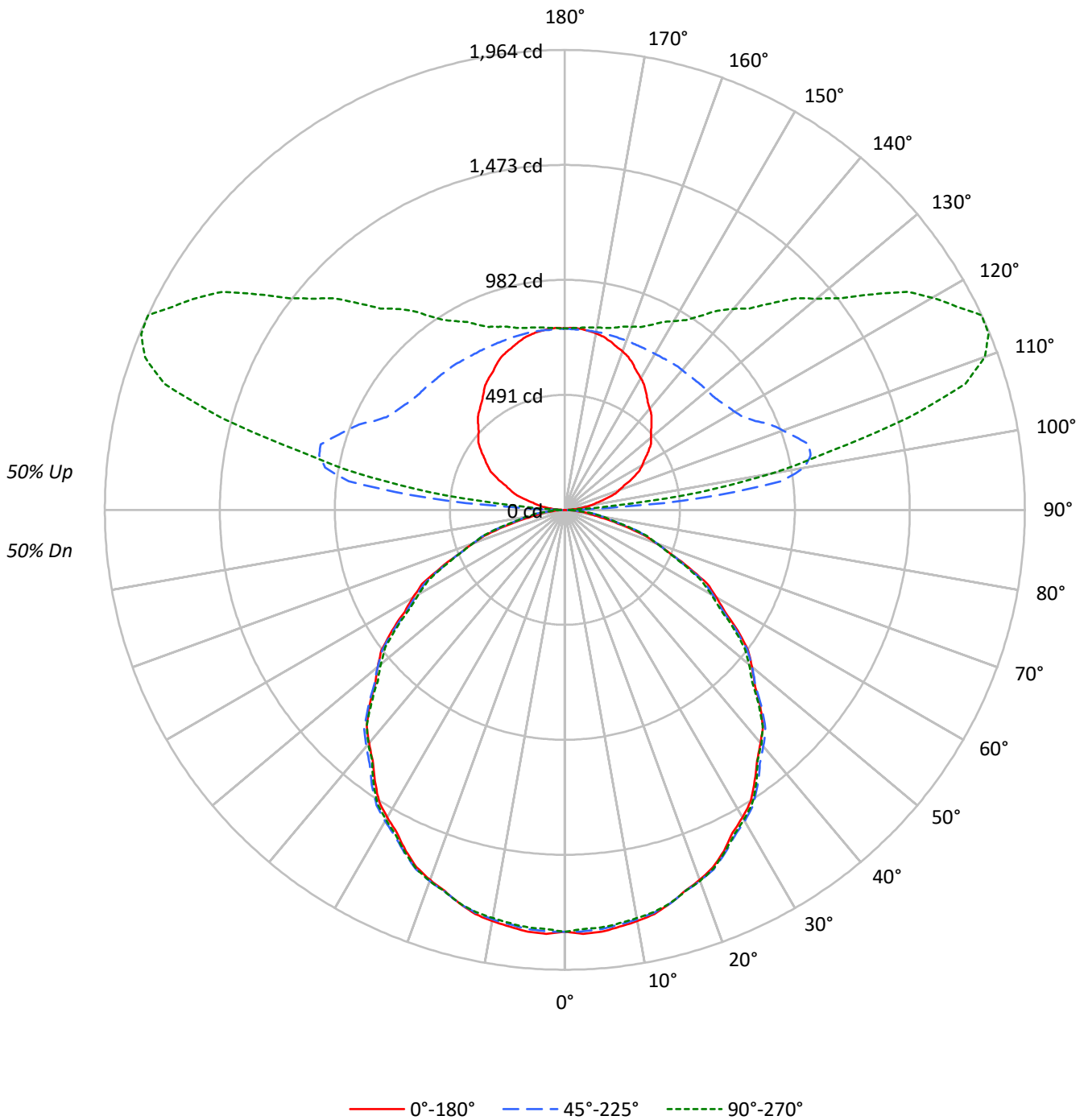
Lumens per Lamp: N/A
Luminaire Lumens: 9919.3 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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°	16627	16627	16627
5°	16751	16644	16582
10°	16711	16633	16586
15°	16623	16623	16607
20°	16513	16563	16563
25°	16357	16476	16425
30°	16158	16354	16283
35°	15918	16163	16050
40°	15655	15876	15715
45°	15370	15480	15240
50°	14969	14969	14729
55°	14493	14306	14091
60°	13793	13516	13300
65°	12749	12494	12385
70°	11163	11252	11208
75°	8983	9935	9992
80°	6381	8421	8512
85°	3885	7061	7061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	1.7
10°-20°	489.4	4.9
20°-30°	741.2	7.5
30°-40°	888.6	9.0
40°-50°	906.0	9.1
50°-60°	790.9	8.0
60°-70°	566.2	5.7
70°-80°	291.6	2.9
80°-90°	75.6	0.8
90°-100°	362.3	3.7
100°-110°	975.9	9.8
110°-120°	1024.2	10.3
120°-130°	831.1	8.4
130°-140°	651.8	6.6
140°-150°	500.4	5.0
150°-160°	359.8	3.6
160°-170°	219.8	2.2
170°-180°	74.1	0.7
0°-30°	1401.1	14.1
0°-40°	2289.7	23.1
0°-60°	3986.6	40.2
0°-90°	4920.0	49.6
90°-120°	2362.3	23.8
90°-150°	4345.6	43.8
90°-180°	4999.0	50.4
0°-180°	9919.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1809	1791	1797	1792	1790	172
15°	1740	1726	1740	1740	1739	491
25°	1607	1595	1618	1614	1614	739
35°	1413	1410	1435	1425	1425	884
45°	1178	1175	1186	1171	1168	907
55°	901	890	889	876	876	803
65°	584	571	572	567	567	578
75°	252	263	279	280	280	272
85°	37	56	67	68	67	50
90°	2	6	12	13	13	5
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°	1802.1	1802.1	1802.1	1802.1	1802.1
2.5°	1812.7	1797.1	1802.1	1797.9	1791.4
5°	1808.7	1790.8	1797.1	1792.0	1790.4
7.5°	1795.7	1777.8	1786.0	1782.7	1781.0
10°	1783.7	1765.8	1775.4	1772.0	1770.4
12.5°	1767.7	1751.1	1762.0	1758.7	1758.3
15°	1740.3	1725.6	1740.3	1740.3	1738.7
17.5°	1706.0	1692.6	1708.3	1709.3	1708.3
20°	1681.9	1667.2	1686.9	1685.3	1686.9
22.5°	1652.6	1640.5	1661.6	1657.3	1658.9
25°	1606.8	1595.4	1618.5	1613.5	1613.5
27.5°	1552.8	1544.6	1569.8	1564.5	1564.5
30°	1516.7	1508.6	1535.1	1528.4	1528.4
32.5°	1476.7	1471.1	1496.4	1488.4	1488.4
35°	1413.3	1410.0	1435.0	1425.0	1425.0
37.5°	1347.9	1344.9	1367.6	1355.5	1351.5
40°	1299.8	1298.2	1318.2	1304.8	1304.8
42.5°	1251.8	1250.1	1267.5	1251.4	1251.4
45°	1178.0	1174.8	1186.4	1171.3	1168.0
47.5°	1097.6	1094.3	1101.6	1085.2	1083.6
50°	1042.9	1039.6	1042.9	1027.8	1026.2
52.5°	986.8	980.9	981.5	966.4	966.1
55°	901.0	889.6	889.4	876.0	876.0
57.5°	810.3	795.3	796.6	785.2	783.6
60°	747.5	731.2	732.5	722.5	720.8
62.5°	686.1	667.2	671.1	659.7	659.4
65°	584.0	571.0	572.3	567.3	567.3
67.5°	485.9	473.8	482.6	478.5	478.2
70°	413.8	405.6	417.1	417.1	415.5
72.5°	347.1	346.7	361.1	361.1	362.1
75°	252.0	263.4	278.7	280.3	280.3
77.5°	168.2	188.4	205.2	205.9	205.6
80°	120.1	143.0	158.5	161.8	160.2
82.5°	81.4	105.6	118.5	121.8	120.1
85°	36.7	56.3	66.7	68.4	66.7
87.5°	11.1	23.6	29.1	29.2	26.6
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)