

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: P562966

Luminaire Tested: **SQ4-PC3-100U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562966
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-835-1D-UNV-STD-W-4
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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

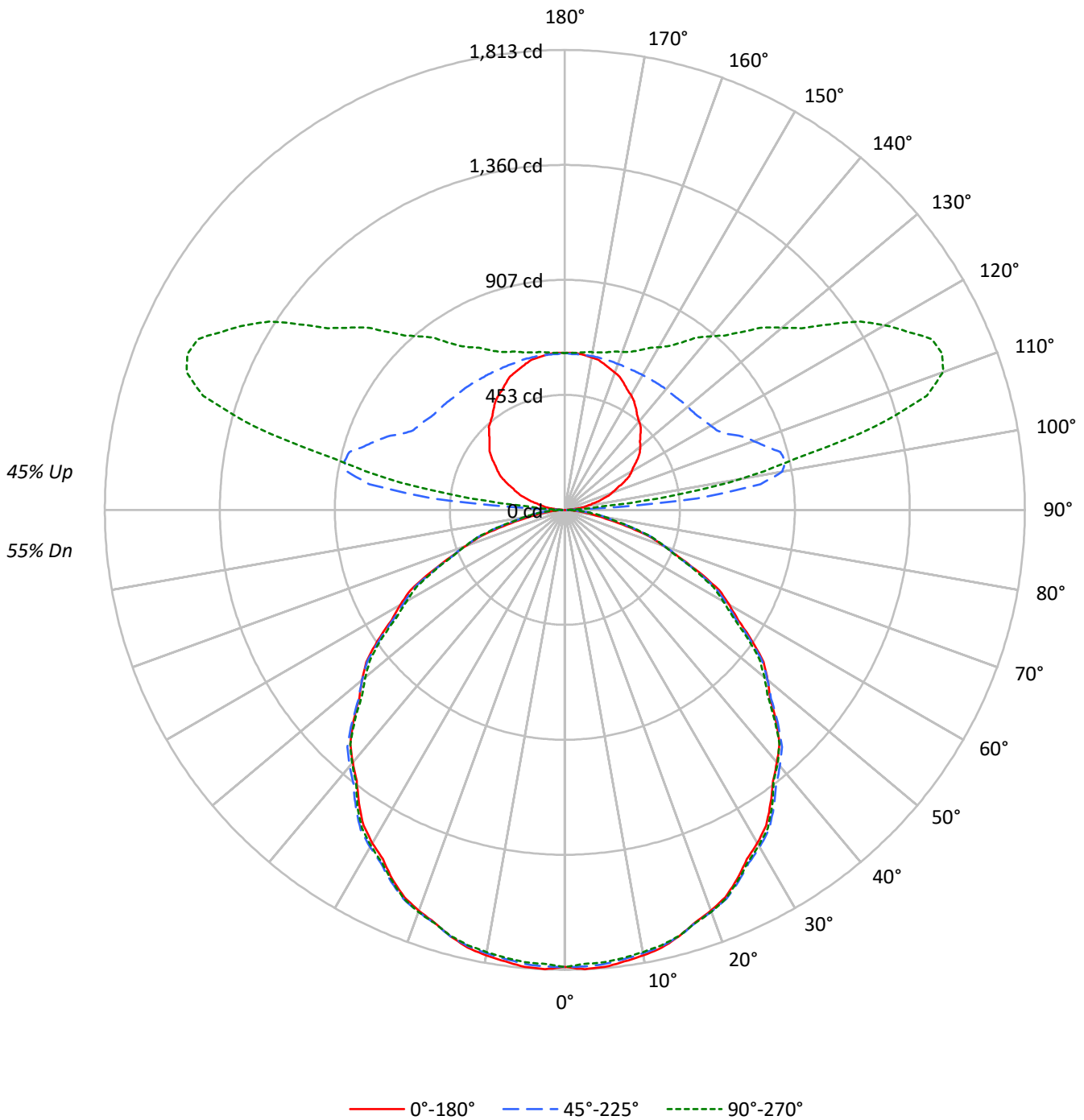
Lumens per Lamp: N/A
Luminaire Lumens: 8935.8 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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°	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	1.9
10°-20°	489.4	5.5
20°-30°	741.2	8.3
30°-40°	888.6	9.9
40°-50°	906.0	10.1
50°-60°	790.9	8.9
60°-70°	566.2	6.3
70°-80°	291.6	3.3
80°-90°	75.0	0.8
90°-100°	289.5	3.2
100°-110°	799.1	8.9
110°-120°	824.2	9.2
120°-130°	662.3	7.4
130°-140°	520.5	5.8
140°-150°	399.2	4.5
150°-160°	286.9	3.2
160°-170°	175.5	2.0
170°-180°	59.2	0.7
0°-30°	1401.1	15.7
0°-40°	2289.7	25.6
0°-60°	3986.6	44.6
0°-90°	4919.5	55.1
90°-120°	1912.8	21.4
90°-150°	3494.8	39.1
90°-180°	4016.0	44.9
0°-180°	8935.8	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	4	8	9	10	5
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	

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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	23.2	28.3	28.4	26.0
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)