

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: P562970

Luminaire Tested: **SQ4-PC3-100U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562970
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

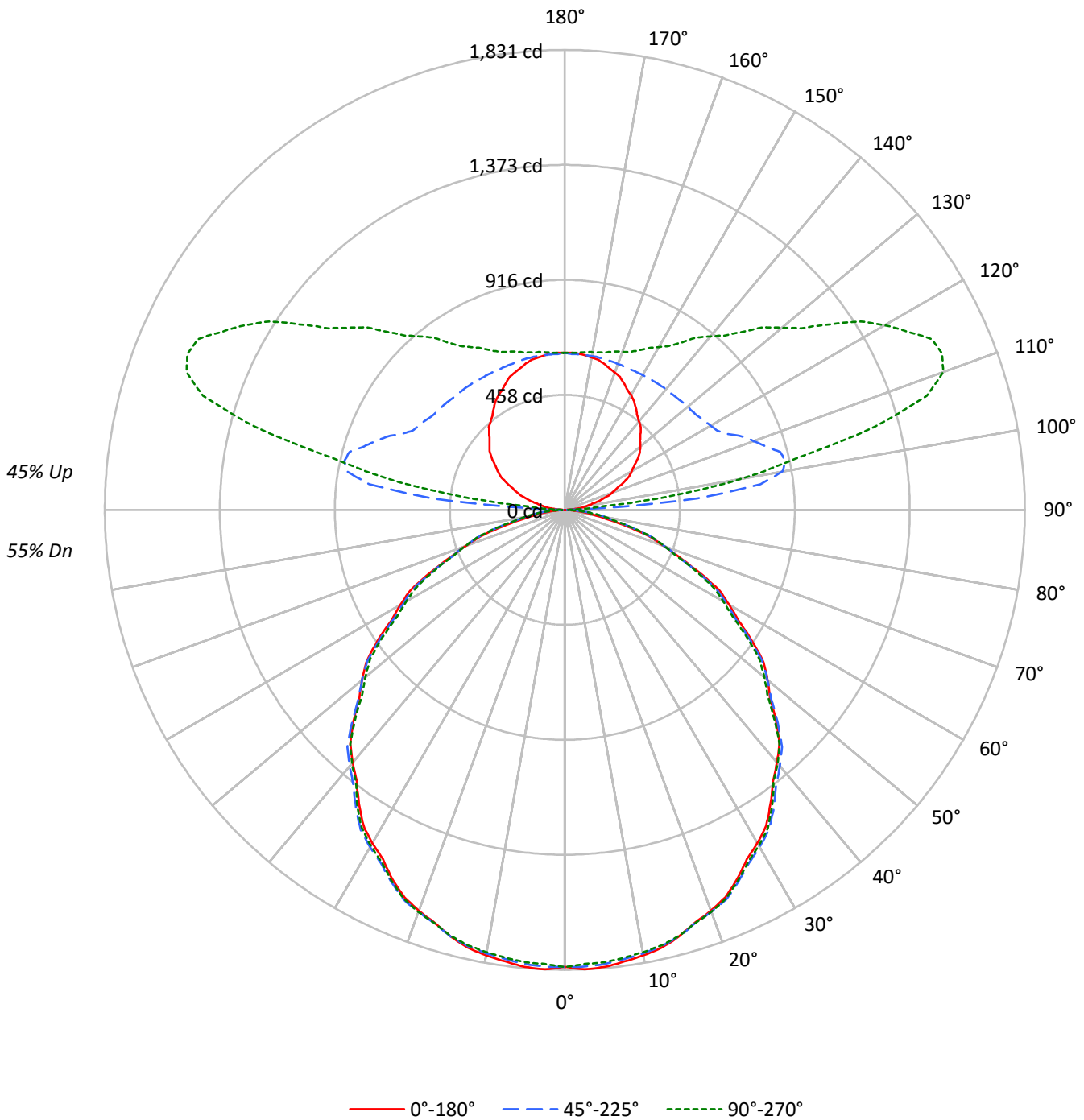
Lumens per Lamp: N/A
Luminaire Lumens: 9025.7 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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					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	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	53	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°	16794	16794	16794
5°	16920	16810	16748
10°	16879	16800	16753
15°	16790	16790	16775
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16518	16447
35°	16078	16325	16211
40°	15813	16035	15874
45°	15526	15635	15394
50°	15120	15120	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12509
70°	11276	11365	11322
75°	9072	10035	10092
80°	6445	8506	8597
85°	3927	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.9
10°-20°	494.3	5.5
20°-30°	748.6	8.3
30°-40°	897.5	9.9
40°-50°	915.1	10.1
50°-60°	798.9	8.9
60°-70°	571.9	6.3
70°-80°	294.6	3.3
80°-90°	75.8	0.8
90°-100°	292.4	3.2
100°-110°	807.2	8.9
110°-120°	832.5	9.2
120°-130°	669.0	7.4
130°-140°	525.7	5.8
140°-150°	403.2	4.5
150°-160°	289.8	3.2
160°-170°	177.2	2.0
170°-180°	59.8	0.7
0°-30°	1415.2	15.7
0°-40°	2312.7	25.6
0°-60°	4026.7	44.6
0°-90°	4969.0	55.1
90°-120°	1932.1	21.4
90°-150°	3530.0	39.1
90°-180°	4057.0	44.9
0°-180°	9025.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1827	1809	1815	1810	1808	173
15°	1758	1743	1758	1758	1756	496
25°	1623	1612	1635	1630	1630	747
35°	1428	1424	1449	1439	1439	893
45°	1190	1187	1198	1183	1180	916
55°	910	899	898	885	885	811
65°	590	577	578	573	573	583
75°	254	266	282	283	283	275
85°	37	57	67	69	67	50
90°	2	4	8	9	10	5
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1831.0	1815.2	1820.2	1816.0	1809.4
5°	1826.9	1808.8	1815.1	1810.0	1808.4
7.5°	1813.8	1795.7	1804.0	1800.6	1799.0
10°	1801.7	1783.5	1793.2	1789.8	1788.2
12.5°	1785.5	1768.7	1779.7	1776.4	1776.0
15°	1757.8	1743.0	1757.8	1757.8	1756.2
17.5°	1723.1	1709.6	1725.5	1726.5	1725.5
20°	1698.9	1684.0	1703.9	1702.3	1703.9
22.5°	1669.2	1657.0	1678.3	1673.9	1675.6
25°	1623.0	1611.5	1634.8	1629.8	1629.8
27.5°	1568.4	1560.2	1585.6	1580.2	1580.2
30°	1532.0	1523.8	1550.5	1543.8	1543.8
32.5°	1491.6	1485.9	1511.4	1503.3	1503.3
35°	1427.5	1424.2	1449.4	1439.3	1439.3
37.5°	1361.4	1358.5	1381.3	1369.1	1365.1
40°	1312.9	1311.3	1331.4	1318.0	1318.0
42.5°	1264.4	1262.7	1280.2	1264.0	1264.0
45°	1189.9	1186.6	1198.3	1183.1	1179.8
47.5°	1108.6	1105.3	1112.7	1096.1	1094.5
50°	1053.4	1050.1	1053.4	1038.1	1036.5
52.5°	996.7	990.8	991.3	976.2	975.8
55°	910.1	898.6	898.3	884.8	884.8
57.5°	818.4	803.3	804.6	793.1	791.4
60°	755.0	738.6	739.9	729.7	728.1
62.5°	693.0	673.9	677.9	666.4	666.1
65°	589.9	576.7	578.1	573.0	573.0
67.5°	490.8	478.6	487.4	483.4	483.0
70°	418.0	409.7	421.3	421.3	419.7
72.5°	350.6	350.2	364.7	364.7	365.7
75°	254.5	266.0	281.5	283.1	283.1
77.5°	169.9	190.3	207.3	208.0	207.6
80°	121.3	144.4	160.1	163.4	161.8
82.5°	82.2	106.6	119.7	123.0	121.3
85°	37.1	56.9	67.4	69.1	67.4
87.5°	11.2	23.4	28.6	28.7	26.3
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)