

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: P563110

Luminaire Tested: **SQ4-PC3-150U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563110  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

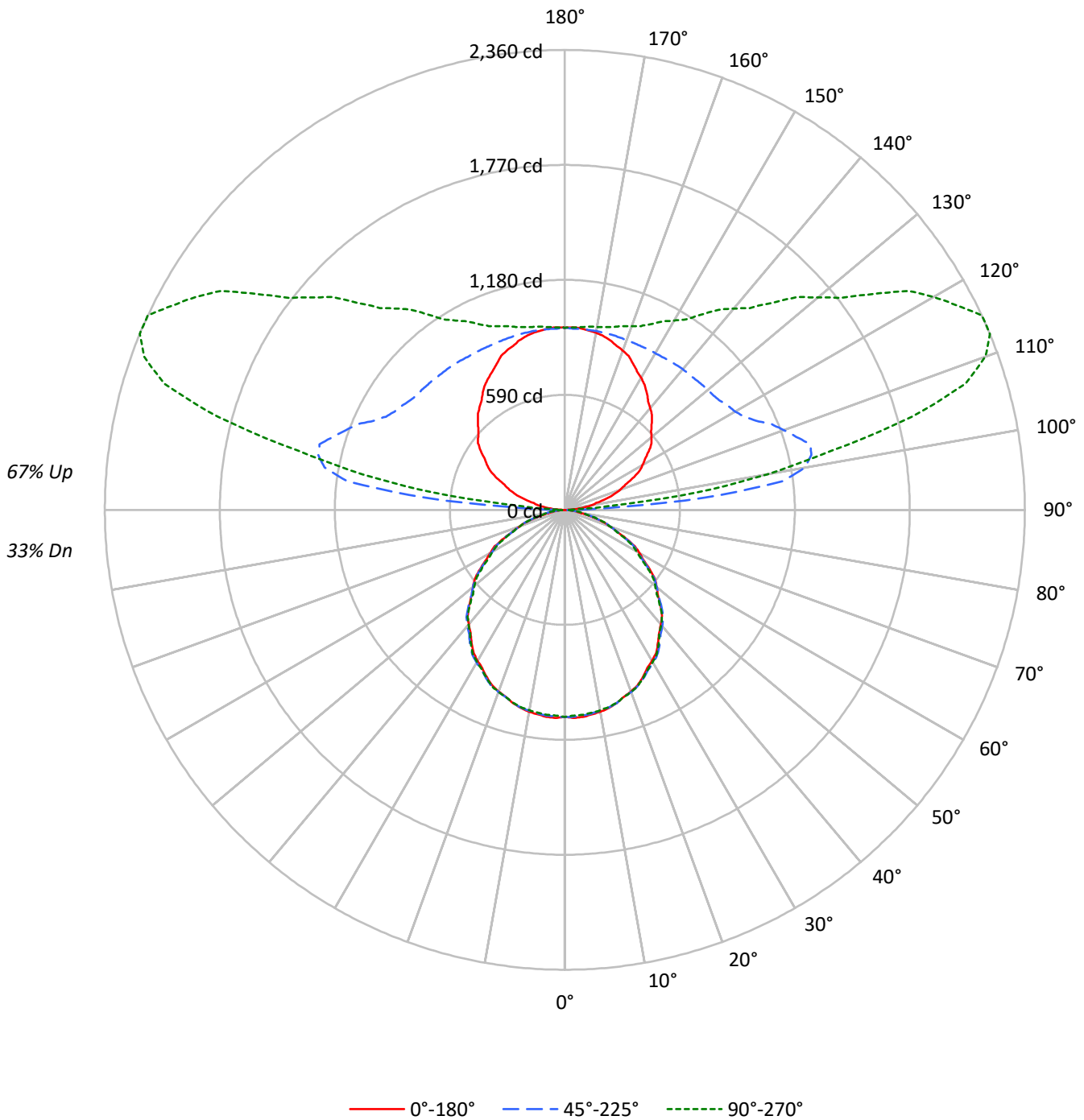
Lumens per Lamp: N/A  
Luminaire Lumens: 8926.5 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 63.5  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9815	9779
10°	9856	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9648	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9064	9130	8987
50°	8827	8827	8687
55°	8548	8437	8310
60°	8136	7971	7844
65°	7519	7368	7305
70°	6582	6636	6609
75°	5297	5857	5893
80°	3767	4968	5021
85°	2287	4171	4171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	1.1
10°-20°	288.6	3.2
20°-30°	437.1	4.9
30°-40°	524.0	5.9
40°-50°	534.3	6.0
50°-60°	466.4	5.2
60°-70°	333.9	3.7
70°-80°	172.0	1.9
80°-90°	45.4	0.5
90°-100°	434.2	4.9
100°-110°	1174.0	13.2
110°-120°	1234.3	13.8
120°-130°	1002.6	11.2
130°-140°	786.5	8.8
140°-150°	603.6	6.8
150°-160°	434.1	4.9
160°-170°	265.2	3.0
170°-180°	89.4	1.0
0°-30°	826.3	9.3
0°-40°	1350.4	15.1
0°-60°	2351.1	26.3
0°-90°	2902.5	32.5
90°-120°	2842.6	31.8
90°-150°	5235.3	58.6
90°-180°	6024.0	67.5
0°-180°	8926.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1067	1056	1060	1057	1056	101
15°	1026	1018	1026	1026	1025	289
25°	948	941	954	952	952	436
35°	834	832	846	840	840	521
45°	695	693	700	691	689	535
55°	531	525	524	517	517	474
65°	344	337	338	335	335	341
75°	149	155	164	165	165	161
85°	22	33	39	40	39	29
90°	2	6	13	14	13	5
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1062.8	1062.8	1062.8	1062.8	1062.8
2.5°	1069.1	1059.8	1062.8	1060.3	1056.5
5°	1066.7	1056.1	1059.8	1056.9	1055.9
7.5°	1059.0	1048.5	1053.3	1051.4	1050.4
10°	1052.0	1041.4	1047.0	1045.1	1044.1
12.5°	1042.5	1032.7	1039.2	1037.2	1037.0
15°	1026.4	1017.7	1026.4	1026.4	1025.4
17.5°	1006.1	998.2	1007.5	1008.1	1007.5
20°	991.9	983.3	994.9	993.9	994.9
22.5°	974.6	967.5	979.9	977.4	978.4
25°	947.7	940.9	954.5	951.6	951.6
27.5°	915.8	911.0	925.8	922.7	922.7
30°	894.5	889.7	905.3	901.4	901.4
32.5°	870.9	867.6	882.5	877.8	877.8
35°	833.5	831.6	846.3	840.4	840.4
37.5°	794.9	793.2	806.5	799.4	797.1
40°	766.6	765.6	777.4	769.5	769.5
42.5°	738.2	737.3	747.5	738.0	738.0
45°	694.7	692.8	699.7	690.8	688.8
47.5°	647.3	645.4	649.7	640.0	639.0
50°	615.0	613.1	615.0	606.2	605.2
52.5°	582.0	578.5	578.8	570.0	569.8
55°	531.4	524.7	524.5	516.6	516.6
57.5°	477.9	469.0	469.8	463.1	462.1
60°	440.9	431.2	432.0	426.1	425.1
62.5°	404.6	393.5	395.8	389.1	388.9
65°	344.4	336.7	337.5	334.6	334.6
67.5°	286.6	279.4	284.6	282.2	282.0
70°	244.0	239.2	246.0	246.0	245.0
72.5°	204.7	204.5	213.0	213.0	213.5
75°	148.6	155.3	164.3	165.3	165.3
77.5°	99.2	111.1	121.0	121.4	121.2
80°	70.9	84.3	93.5	95.4	94.5
82.5°	48.0	62.3	69.9	71.8	70.9
85°	21.6	33.2	39.4	40.3	39.4
87.5°	6.7	14.4	18.4	18.5	16.8
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)