

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: P563114

Luminaire Tested: **SQ4-PC3-150U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563114  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

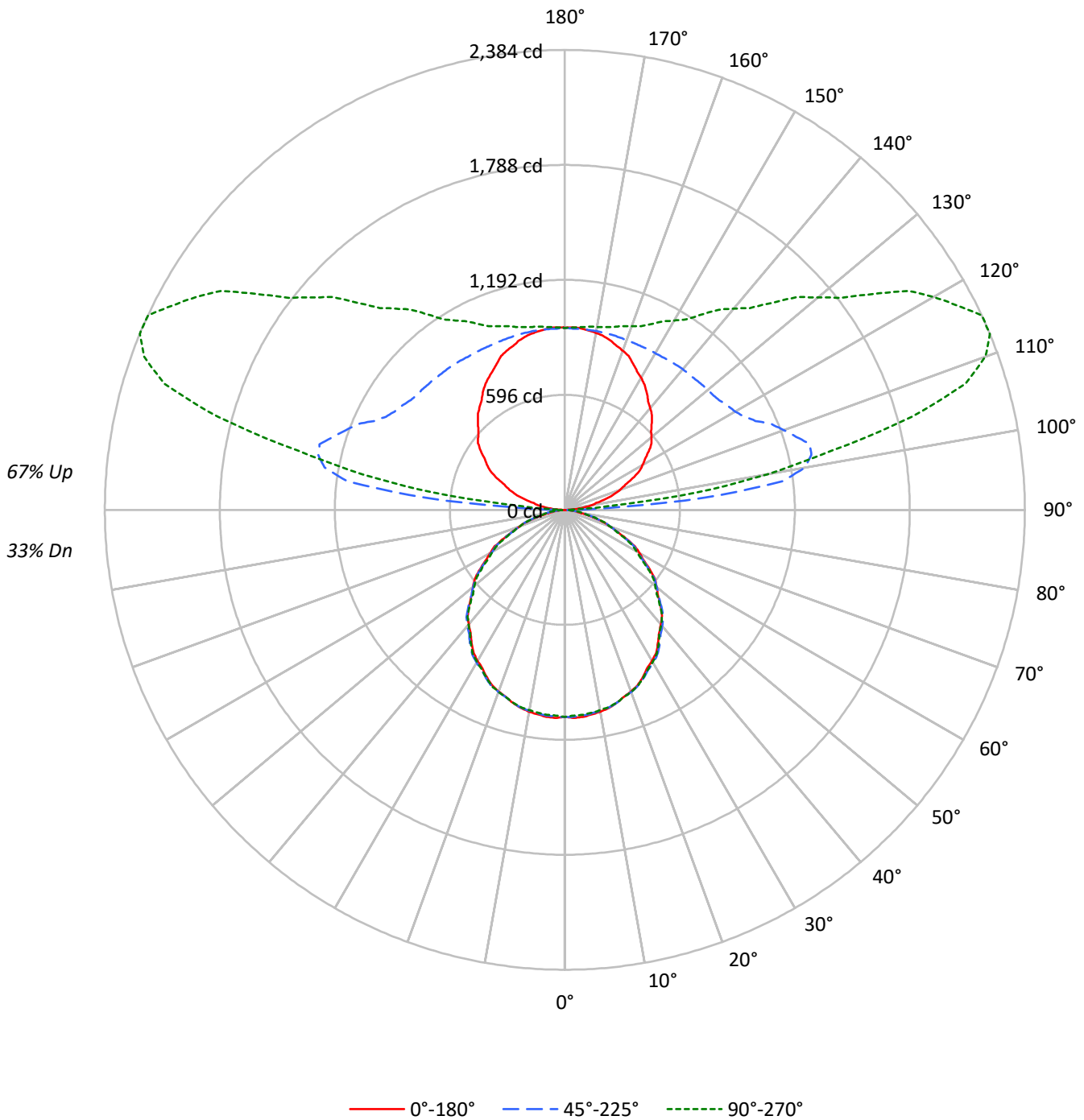
Lumens per Lamp: N/A  
Luminaire Lumens: 9016.3 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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°	9904	9904	9904
5°	9979	9914	9877
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9560
40°	9326	9457	9362
45°	9156	9221	9079
50°	8916	8916	8774
55°	8633	8522	8393
60°	8217	8053	7923
65°	7595	7442	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3804	5016	5069
85°	2318	4213	4213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	1.1
10°-20°	291.5	3.2
20°-30°	441.5	4.9
30°-40°	529.3	5.9
40°-50°	539.7	6.0
50°-60°	471.1	5.2
60°-70°	337.3	3.7
70°-80°	173.7	1.9
80°-90°	45.9	0.5
90°-100°	438.6	4.9
100°-110°	1185.8	13.2
110°-120°	1246.8	13.8
120°-130°	1012.7	11.2
130°-140°	794.4	8.8
140°-150°	609.7	6.8
150°-160°	438.5	4.9
160°-170°	267.9	3.0
170°-180°	90.3	1.0
0°-30°	834.6	9.3
0°-40°	1363.9	15.1
0°-60°	2374.8	26.3
0°-90°	2931.7	32.5
90°-120°	2871.2	31.8
90°-150°	5287.9	58.6
90°-180°	6085.0	67.5
0°-180°	9016.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1078	1067	1070	1068	1066	102
15°	1037	1028	1037	1037	1036	292
25°	957	950	964	961	961	441
35°	842	840	855	849	849	527
45°	702	700	707	698	696	540
55°	537	530	530	522	522	478
65°	348	340	341	338	338	344
75°	150	157	166	167	167	162
85°	22	34	40	41	40	30
90°	2	6	13	14	13	5
95°	68	239	729	378	224	71
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1079.8	1070.5	1073.5	1071.0	1067.1
5°	1077.5	1066.8	1070.5	1067.5	1066.5
7.5°	1069.7	1059.0	1063.9	1061.9	1061.0
10°	1062.5	1051.9	1057.6	1055.6	1054.6
12.5°	1053.0	1043.1	1049.6	1047.6	1047.4
15°	1036.7	1028.0	1036.7	1036.7	1035.7
17.5°	1016.2	1008.3	1017.6	1018.2	1017.6
20°	1001.9	993.2	1004.9	1003.9	1004.9
22.5°	984.4	977.2	989.8	987.2	988.2
25°	957.2	950.4	964.1	961.2	961.2
27.5°	925.0	920.1	935.1	931.9	931.9
30°	903.5	898.7	914.4	910.5	910.5
32.5°	879.7	876.4	891.4	886.6	886.6
35°	841.9	839.9	854.8	848.8	848.8
37.5°	802.9	801.2	814.7	807.4	805.1
40°	774.3	773.3	785.2	777.3	777.3
42.5°	745.7	744.7	755.0	745.5	745.5
45°	701.7	699.8	706.7	697.7	695.8
47.5°	653.8	651.9	656.2	646.5	645.5
50°	621.2	619.3	621.2	612.3	611.3
52.5°	587.8	584.3	584.6	575.7	575.5
55°	536.7	529.9	529.8	521.8	521.8
57.5°	482.7	473.7	474.5	467.7	466.8
60°	445.3	435.6	436.4	430.4	429.4
62.5°	408.7	397.4	399.8	393.0	392.8
65°	347.9	340.1	340.9	337.9	337.9
67.5°	289.4	282.3	287.5	285.1	284.9
70°	246.5	241.6	248.5	248.5	247.5
72.5°	206.7	206.6	215.1	215.1	215.7
75°	150.1	156.9	166.0	167.0	167.0
77.5°	100.2	112.2	122.3	122.7	122.5
80°	71.6	85.2	94.4	96.4	95.4
82.5°	48.5	62.9	70.6	72.5	71.6
85°	21.9	33.5	39.8	40.7	39.8
87.5°	6.8	14.6	18.5	18.7	17.0
90°	2.0	6.0	13.2	14.2	13.2
92.5°	28.9	105.1	207.4	90.0	65.2
95°	68.1	238.9	729.4	377.5	224.5
97.5°	109.3	274.0	1136.9	940.9	691.0
100°	140.2	288.2	1263.7	1317.9	1065.6
102.5°	168.6	307.9	1308.4	1603.8	1415.1
105°	220.4	340.6	1315.5	1940.5	1861.0
107.5°	268.4	378.0	1258.0	2150.6	2177.0
110°	305.8	405.1	1206.8	2207.0	2319.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)