

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: P562670

Luminaire Tested: **SQ4-PC3-050U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562670  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

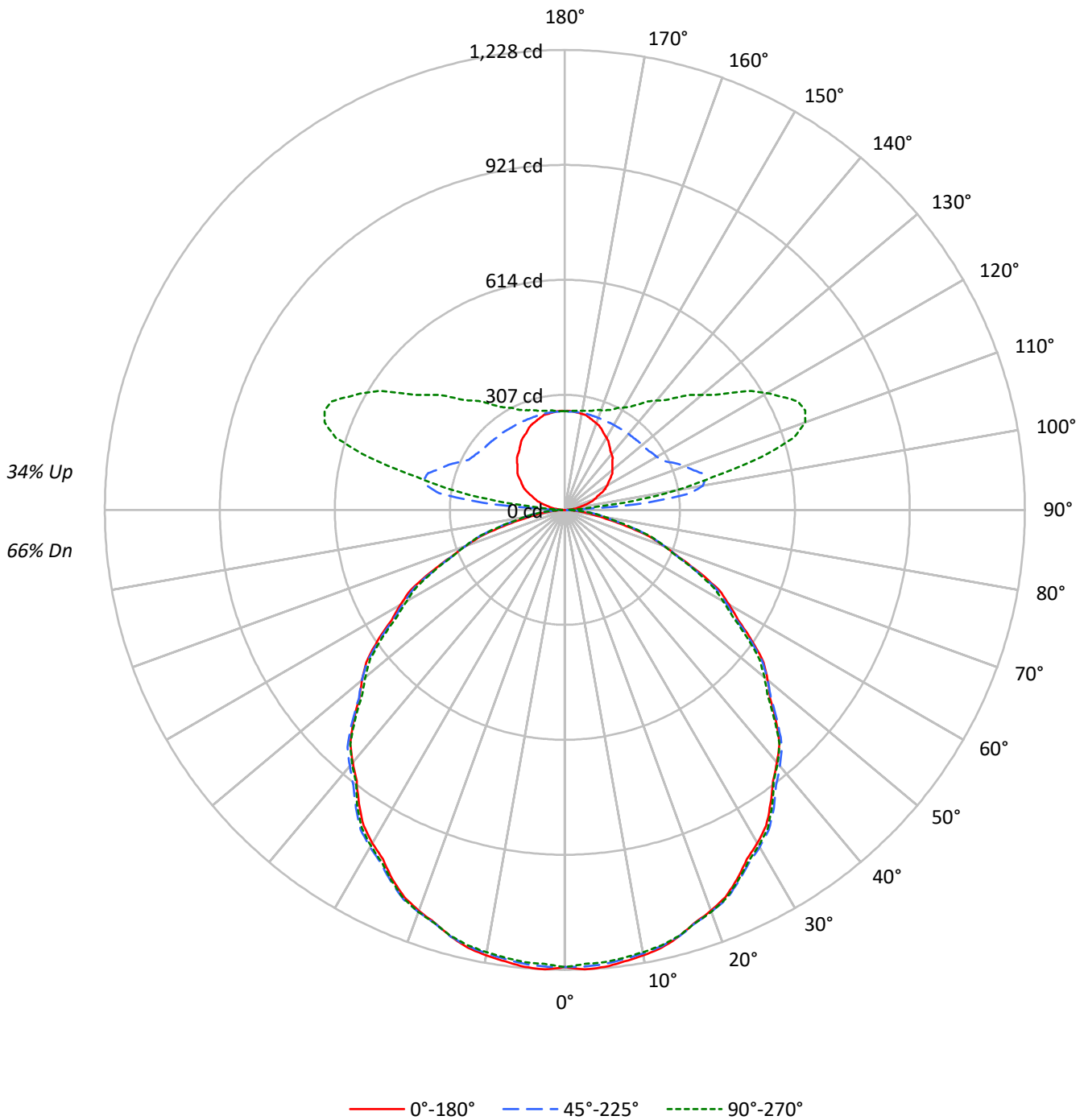
Lumens per Lamp: N/A  
Luminaire Lumens: 5054.7 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.1  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

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

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11232
10°	11320	11268	11236
15°	11260	11260	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10487	10323
50°	10141	10141	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7594
75°	6085	6730	6769
80°	4325	5706	5765
85°	2636	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	2.3
10°-20°	331.5	6.6
20°-30°	502.1	9.9
30°-40°	601.9	11.9
40°-50°	613.7	12.1
50°-60°	535.8	10.6
60°-70°	383.6	7.6
70°-80°	197.6	3.9
80°-90°	51.0	1.0
90°-100°	126.6	2.5
100°-110°	343.9	6.8
110°-120°	353.6	7.0
120°-130°	282.7	5.6
130°-140°	222.2	4.4
140°-150°	170.3	3.4
150°-160°	122.5	2.4
160°-170°	74.9	1.5
170°-180°	25.2	0.5
0°-30°	949.2	18.8
0°-40°	1551.1	30.7
0°-60°	2700.6	53.4
0°-90°	3332.7	65.9
90°-120°	824.1	16.3
90°-150°	1499.3	29.7
90°-180°	1722.0	34.1
0°-180°	5054.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1225	1213	1217	1214	1213	116
15°	1179	1169	1179	1179	1178	332
25°	1088	1081	1096	1093	1093	501
35°	957	955	972	965	965	599
45°	798	796	804	793	791	614
55°	610	603	602	593	593	544
65°	396	387	388	384	384	391
75°	171	178	189	190	190	184
85°	25	38	45	46	45	34
90°	1	3	6	8	8	2
95°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1228.0	1217.4	1220.8	1217.9	1213.5
5°	1225.3	1213.1	1217.4	1214.0	1212.8
7.5°	1216.5	1204.3	1209.9	1207.6	1206.5
10°	1208.3	1196.2	1202.7	1200.4	1199.3
12.5°	1197.5	1186.2	1193.6	1191.4	1191.1
15°	1178.9	1169.0	1178.9	1178.9	1177.8
17.5°	1155.7	1146.6	1157.2	1157.9	1157.2
20°	1139.4	1129.4	1142.8	1141.7	1142.8
22.5°	1119.5	1111.3	1125.6	1122.7	1123.8
25°	1088.5	1080.8	1096.4	1093.0	1093.0
27.5°	1051.9	1046.4	1063.4	1059.8	1059.8
30°	1027.5	1021.9	1039.9	1035.4	1035.4
32.5°	1000.3	996.6	1013.7	1008.3	1008.3
35°	957.4	955.2	972.1	965.3	965.3
37.5°	913.1	911.1	926.4	918.2	915.6
40°	880.5	879.4	893.0	883.9	883.9
42.5°	848.0	846.9	858.6	847.7	847.7
45°	798.0	795.8	803.7	793.4	791.2
47.5°	743.5	741.3	746.2	735.1	734.0
50°	706.5	704.2	706.5	696.3	695.2
52.5°	668.5	664.5	664.9	654.7	654.5
55°	610.4	602.6	602.5	593.4	593.4
57.5°	548.9	538.7	539.6	531.9	530.8
60°	506.4	495.3	496.2	489.4	488.3
62.5°	464.8	452.0	454.6	446.9	446.7
65°	395.6	386.8	387.7	384.3	384.3
67.5°	329.2	321.0	326.9	324.2	324.0
70°	280.3	274.8	282.6	282.6	281.5
72.5°	235.1	234.9	244.6	244.6	245.3
75°	170.7	178.4	188.8	189.9	189.9
77.5°	113.9	127.6	139.0	139.5	139.3
80°	81.4	96.9	107.4	109.6	108.5
82.5°	55.2	71.5	80.3	82.5	81.4
85°	24.9	38.1	45.2	46.3	45.2
87.5°	7.4	15.9	19.3	19.6	17.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)