

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: P562554

Luminaire Tested: **SQ4-PC3-025U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562554  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

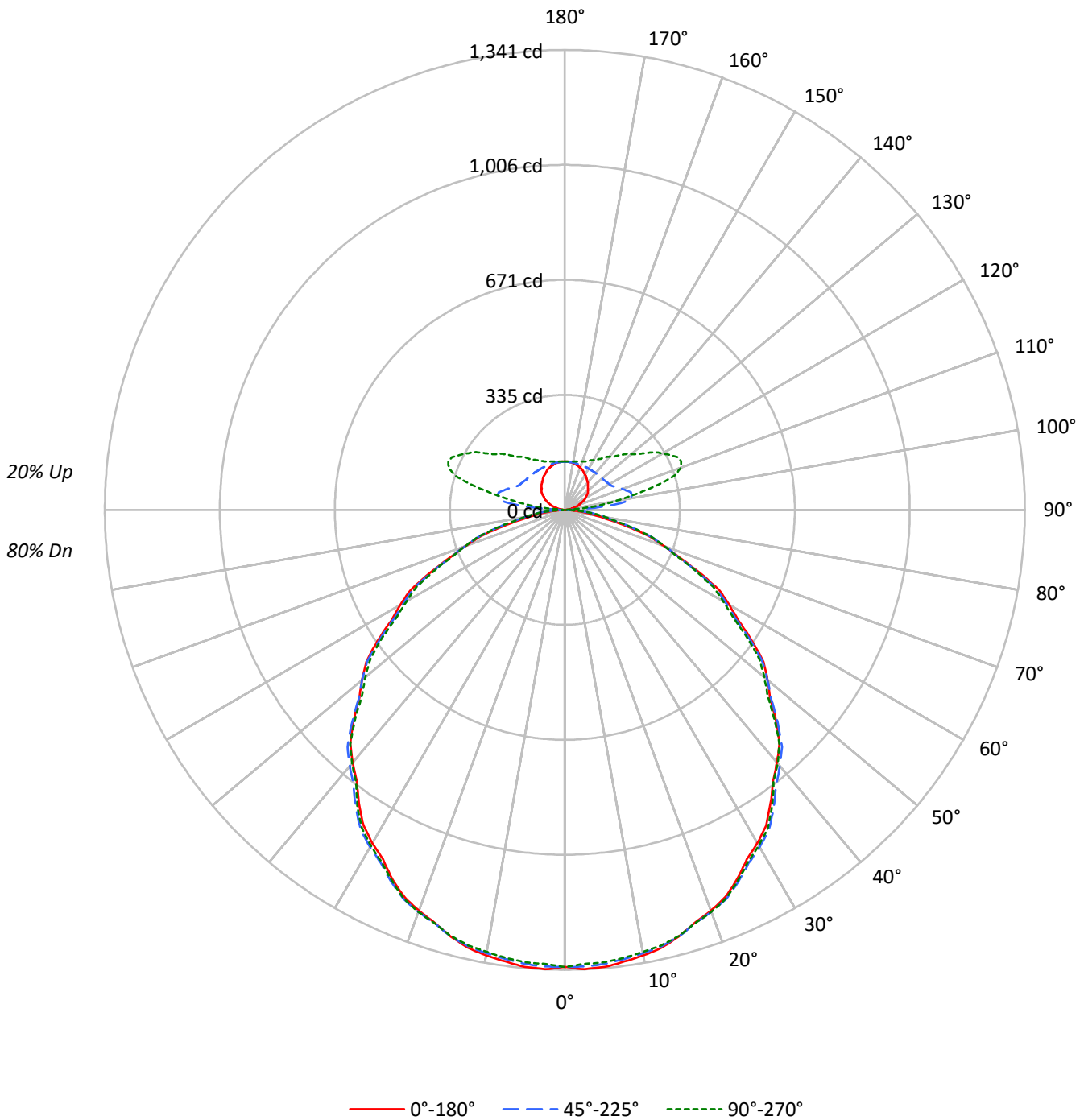
Lumens per Lamp: N/A  
Luminaire Lumens: 4550.2 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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	50	30	10	0		
RCR																										
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80					80			
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68					68			
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57					57			
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48					48			
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41					41			
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36					36			
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31					31			
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28					28			
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25					25			
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22					22			
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20					20			

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

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12303	12267
15°	12295	12295	12283
20°	12214	12250	12250
25°	12099	12186	12149
30°	11952	12096	12044
35°	11773	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10719	10581	10422
60°	10202	9998	9839
65°	9431	9241	9160
70°	8257	8322	8290
75°	6645	7347	7390
80°	4723	6227	6296
85°	2879	5229	5229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	2.8
10°-20°	362.0	8.0
20°-30°	548.2	12.0
30°-40°	657.2	14.4
40°-50°	670.1	14.7
50°-60°	585.0	12.9
60°-70°	418.8	9.2
70°-80°	215.7	4.7
80°-90°	55.3	1.2
90°-100°	68.6	1.5
100°-110°	180.2	4.0
110°-120°	186.9	4.1
120°-130°	149.9	3.3
130°-140°	117.6	2.6
140°-150°	90.3	2.0
150°-160°	65.0	1.4
160°-170°	39.8	0.9
170°-180°	13.4	0.3
0°-30°	1036.3	22.8
0°-40°	1693.6	37.2
0°-60°	2948.7	64.8
0°-90°	3638.5	80.0
90°-120°	435.7	9.6
90°-150°	793.5	17.4
90°-180°	912.0	20.0
0°-180°	4550.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1338	1325	1329	1326	1324	127
15°	1287	1276	1287	1287	1286	363
25°	1188	1180	1197	1193	1193	547
35°	1045	1043	1061	1054	1054	654
45°	871	869	878	866	864	671
55°	666	658	658	648	648	594
65°	432	422	423	420	420	427
75°	186	195	206	207	207	201
85°	27	42	49	51	49	37
90°	1	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	

TEST NUMBER: P562554

CATALOG NUMBER: SQ4-PC3-025U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1332.9	1332.9	1332.9	1332.9	1332.9
2.5°	1340.8	1329.2	1332.9	1329.8	1325.0
5°	1337.8	1324.6	1329.2	1325.5	1324.3
7.5°	1328.2	1314.9	1321.0	1318.6	1317.3
10°	1319.3	1306.0	1313.2	1310.7	1309.4
12.5°	1307.5	1295.2	1303.3	1300.8	1300.6
15°	1287.2	1276.4	1287.2	1287.2	1286.0
17.5°	1261.8	1251.9	1263.5	1264.3	1263.5
20°	1244.0	1233.2	1247.7	1246.5	1247.7
22.5°	1222.3	1213.4	1229.0	1225.8	1227.0
25°	1188.5	1180.1	1197.1	1193.4	1193.4
27.5°	1148.5	1142.5	1161.1	1157.2	1157.2
30°	1121.9	1115.8	1135.4	1130.5	1130.5
32.5°	1092.2	1088.1	1106.8	1100.9	1100.9
35°	1045.3	1042.9	1061.4	1054.0	1054.0
37.5°	997.0	994.8	1011.5	1002.6	999.7
40°	961.4	960.2	975.0	965.1	965.1
42.5°	925.9	924.7	937.5	925.6	925.6
45°	871.3	868.9	877.5	866.3	863.9
47.5°	811.8	809.4	814.8	802.7	801.5
50°	771.4	768.9	771.4	760.2	759.0
52.5°	729.9	725.5	725.9	714.8	714.6
55°	666.4	658.0	657.8	647.9	647.9
57.5°	599.3	588.2	589.2	580.8	579.6
60°	552.9	540.8	541.8	534.4	533.2
62.5°	507.5	493.5	496.4	488.0	487.7
65°	432.0	422.3	423.3	419.6	419.6
67.5°	359.4	350.5	356.9	354.0	353.7
70°	306.1	300.0	308.5	308.5	307.3
72.5°	256.7	256.5	267.1	267.1	267.8
75°	186.4	194.8	206.1	207.3	207.3
77.5°	124.4	139.4	151.8	152.3	152.0
80°	88.9	105.8	117.2	119.7	118.5
82.5°	60.2	78.1	87.6	90.1	88.9
85°	27.2	41.6	49.4	50.6	49.4
87.5°	8.1	17.1	21.2	20.4	18.5
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7

TEST NUMBER: P562554

CATALOG NUMBER: SQ4-PC3-025U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)