

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: P562573

Luminaire Tested: **SQ4-PC3-025U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562573  
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-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

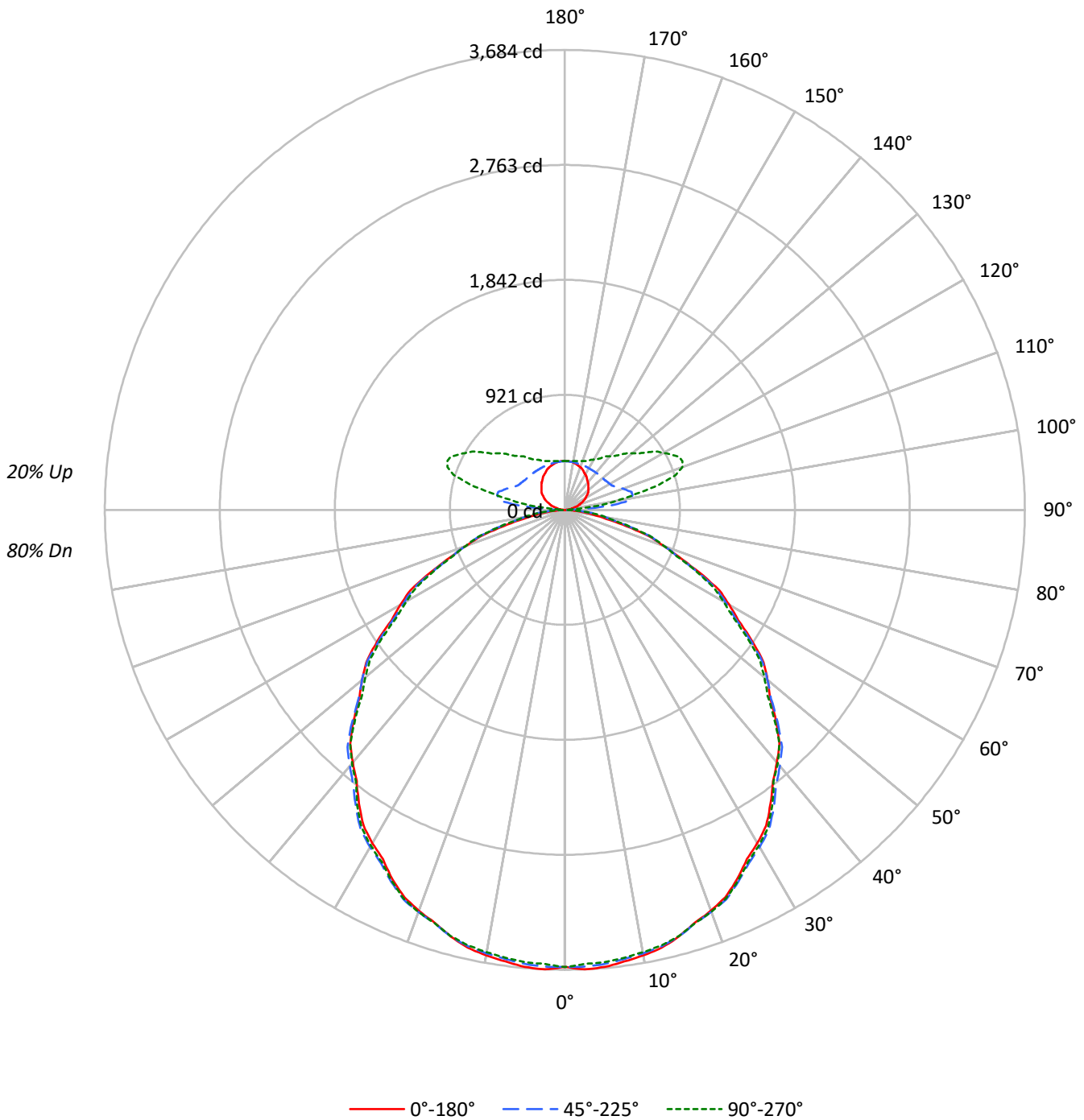
Lumens per Lamp: N/A  
Luminaire Lumens: 12527.4 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 123.6  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	92	100	96	92	89	88	85	83	81	79	76	74	72	71	67				
2	95	87	81	76	91	84	78	73	77	72	68	71	67	64	65	62	60	57				
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48				
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41				
5	73	61	52	46	70	59	51	45	54	48	42	50	45	40	46	42	38	35				
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	33	31				
7	63	50	41	35	60	48	40	34	44	38	33	41	36	31	38	33	30	27				
8	58	45	37	31	55	44	36	31	41	34	29	38	32	28	35	30	27	25				
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22				
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20				

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

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11162	11127
30°	10946	11079	11030
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9818	9691	9546
60°	9344	9156	9010
65°	8636	8464	8390
70°	7562	7622	7593
75°	6084	6729	6769
80°	4325	5705	5765
85°	2632	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.6	2.8
10°-20°	994.6	7.9
20°-30°	1506.2	12.0
30°-40°	1805.8	14.4
40°-50°	1841.3	14.7
50°-60°	1607.3	12.8
60°-70°	1150.7	9.2
70°-80°	592.7	4.7
80°-90°	152.0	1.2
90°-100°	190.3	1.5
100°-110°	500.2	4.0
110°-120°	518.7	4.1
120°-130°	416.0	3.3
130°-140°	326.4	2.6
140°-150°	250.5	2.0
150°-160°	180.4	1.4
160°-170°	110.4	0.9
170°-180°	37.3	0.3
0°-30°	2847.5	22.7
0°-40°	4653.2	37.1
0°-60°	8101.8	64.7
0°-90°	9997.2	79.8
90°-120°	1209.1	9.7
90°-150°	2202.1	17.6
90°-180°	2530.0	20.2
0°-180°	12527.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3676	3639	3652	3642	3638	349
15°	3537	3507	3537	3537	3533	997
25°	3266	3242	3289	3279	3279	1503
35°	2872	2866	2916	2896	2896	1796
45°	2394	2387	2411	2380	2374	1843
55°	1831	1808	1807	1780	1780	1632
65°	1187	1160	1163	1153	1153	1174
75°	512	535	566	570	570	553
85°	75	114	136	139	136	101
90°	2	7	20	10	10	5
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3662.3	3662.3	3662.3	3662.3	3662.3
2.5°	3684.0	3652.1	3662.3	3653.8	3640.6
5°	3675.8	3639.4	3652.1	3641.9	3638.5
7.5°	3649.4	3612.9	3629.7	3622.9	3619.5
10°	3625.0	3588.5	3608.0	3601.2	3597.8
12.5°	3592.4	3558.6	3580.9	3574.1	3573.4
15°	3536.8	3507.0	3536.8	3536.7	3533.4
17.5°	3467.0	3439.8	3471.7	3473.7	3471.7
20°	3418.1	3388.3	3428.3	3425.0	3428.3
22.5°	3358.4	3333.9	3376.8	3368.0	3371.3
25°	3265.5	3242.3	3289.3	3279.1	3279.1
27.5°	3155.7	3139.1	3190.2	3179.4	3179.4
30°	3082.4	3065.8	3119.7	3106.1	3106.1
32.5°	3001.0	2989.8	3041.0	3024.8	3024.8
35°	2872.2	2865.5	2916.3	2895.9	2895.9
37.5°	2739.2	2733.3	2779.3	2754.7	2746.7
40°	2641.6	2638.3	2678.9	2651.8	2651.8
42.5°	2543.9	2540.6	2575.8	2543.2	2543.2
45°	2394.0	2387.4	2411.0	2380.3	2373.7
47.5°	2230.6	2224.0	2238.7	2205.4	2202.1
50°	2119.4	2112.7	2119.4	2088.8	2085.5
52.5°	2005.4	1993.5	1994.6	1964.0	1963.4
55°	1831.1	1807.9	1807.4	1780.3	1780.3
57.5°	1646.7	1616.2	1618.9	1595.7	1592.4
60°	1519.2	1486.0	1488.6	1468.2	1464.9
62.5°	1394.4	1355.9	1363.9	1340.8	1340.1
65°	1186.8	1160.3	1163.1	1152.9	1152.9
67.5°	987.5	962.9	980.7	972.5	971.9
70°	841.0	824.4	847.7	847.7	844.4
72.5°	705.3	704.7	733.8	733.9	735.8
75°	512.0	535.2	566.3	569.7	569.7
77.5°	341.8	382.9	417.1	418.4	417.8
80°	244.2	290.6	322.1	328.9	325.5
82.5°	165.5	214.6	240.8	247.5	244.2
85°	74.6	114.4	135.6	139.0	135.6
87.5°	22.2	47.1	58.3	56.1	50.8
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)