

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: P562556

Luminaire Tested: **SQ4-PC3-025U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562556
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-8
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

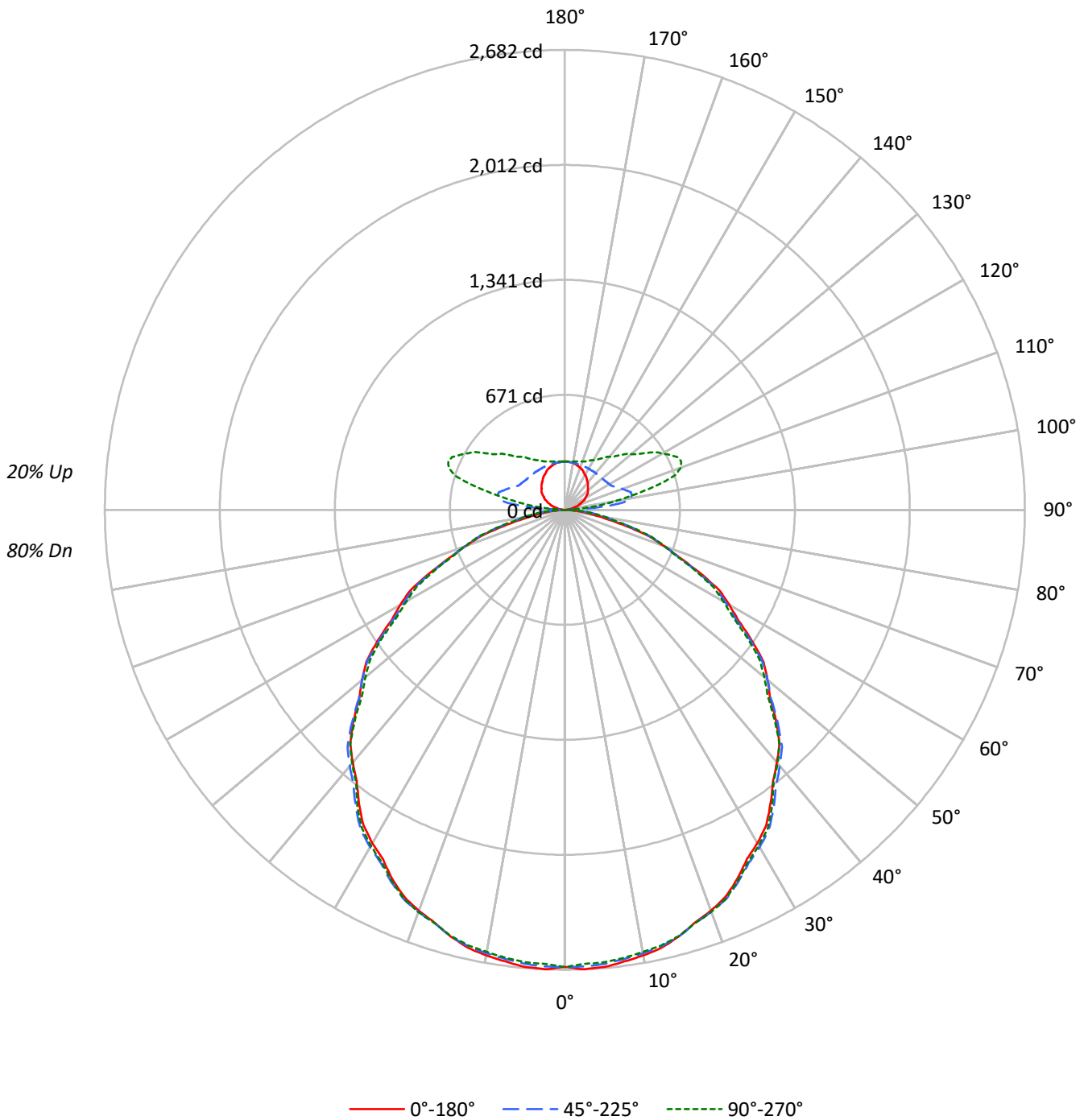
Lumens per Lamp: N/A
Luminaire Lumens: 9100.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	84	84	84	80				
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68				
2	95	88	81	76	91	84	78	73	77	73	69	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	43	50	45	40	46	42	38	36				
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31				
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28				
8	58	45	37	31	56	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	35	28	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12264
10°	12360	12302	12268
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12097	12044
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10423
60°	10202	9998	9838
65°	9430	9241	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4721	6230	6296
85°	2874	5224	5224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	2.8
10°-20°	724.0	8.0
20°-30°	1096.4	12.0
30°-40°	1314.4	14.4
40°-50°	1340.3	14.7
50°-60°	1170.0	12.9
60°-70°	837.6	9.2
70°-80°	431.4	4.7
80°-90°	110.6	1.2
90°-100°	137.1	1.5
100°-110°	360.4	4.0
110°-120°	373.8	4.1
120°-130°	299.8	3.3
130°-140°	235.2	2.6
140°-150°	180.5	2.0
150°-160°	130.0	1.4
160°-170°	79.6	0.9
170°-180°	26.9	0.3
0°-30°	2072.7	22.8
0°-40°	3387.1	37.2
0°-60°	5897.3	64.8
0°-90°	7276.9	80.0
90°-120°	871.3	9.6
90°-150°	1586.9	17.4
90°-180°	1823.0	20.0
0°-180°	9100.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2676	2649	2658	2651	2648	254
15°	2574	2553	2574	2574	2572	726
25°	2377	2360	2394	2387	2387	1094
35°	2091	2086	2123	2108	2108	1308
45°	1743	1738	1755	1733	1728	1341
55°	1333	1316	1316	1296	1296	1188
65°	864	845	847	839	839	854
75°	373	390	412	415	415	403
85°	54	83	99	101	99	74
90°	2	5	14	7	7	4
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	

TEST NUMBER: P562556

CATALOG NUMBER: SQ4-PC3-025U-100D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2665.8	2665.8	2665.8	2665.8	2665.8
2.5°	2681.6	2658.4	2665.8	2659.7	2650.0
5°	2675.7	2649.1	2658.4	2650.9	2648.5
7.5°	2656.4	2629.9	2642.1	2637.1	2634.7
10°	2638.6	2612.1	2626.3	2621.3	2618.9
12.5°	2614.9	2590.3	2606.6	2601.6	2601.1
15°	2574.5	2552.7	2574.5	2574.4	2572.0
17.5°	2523.6	2503.8	2527.1	2528.5	2527.1
20°	2488.1	2466.4	2495.5	2493.1	2495.5
22.5°	2444.6	2426.8	2458.0	2451.6	2454.0
25°	2377.0	2360.1	2394.3	2386.9	2386.9
27.5°	2297.0	2285.0	2322.2	2314.3	2314.3
30°	2243.7	2231.6	2270.9	2261.0	2261.0
32.5°	2184.5	2176.3	2213.6	2201.7	2201.7
35°	2090.7	2085.8	2122.8	2108.0	2108.0
37.5°	1993.9	1989.6	2023.0	2005.1	1999.3
40°	1922.8	1920.4	1950.0	1930.2	1930.2
42.5°	1851.7	1849.3	1874.9	1851.2	1851.2
45°	1742.6	1737.8	1755.0	1732.7	1727.8
47.5°	1623.7	1618.8	1629.6	1605.3	1602.9
50°	1542.7	1537.9	1542.7	1520.4	1518.0
52.5°	1459.8	1451.1	1451.9	1429.6	1429.2
55°	1332.9	1316.0	1315.6	1295.9	1295.9
57.5°	1198.6	1176.4	1178.4	1161.5	1159.1
60°	1105.8	1081.7	1083.6	1068.7	1066.3
62.5°	1015.0	987.0	992.8	976.0	975.5
65°	863.9	844.6	846.6	839.2	839.2
67.5°	718.8	700.9	713.8	707.9	707.4
70°	612.1	600.1	617.1	617.0	614.6
72.5°	513.4	512.9	534.1	534.2	535.6
75°	372.7	389.6	412.2	414.7	414.7
77.5°	248.8	278.7	303.6	304.6	304.1
80°	177.7	211.5	234.5	239.4	237.0
82.5°	120.5	156.2	175.3	180.1	177.7
85°	54.3	83.3	98.7	101.1	98.7
87.5°	16.2	34.2	42.4	40.8	37.0
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4

TEST NUMBER: P562556

CATALOG NUMBER: SQ4-PC3-025U-100D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)