

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: P562652

Luminaire Tested: **SQ4-PC3-050U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562652
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

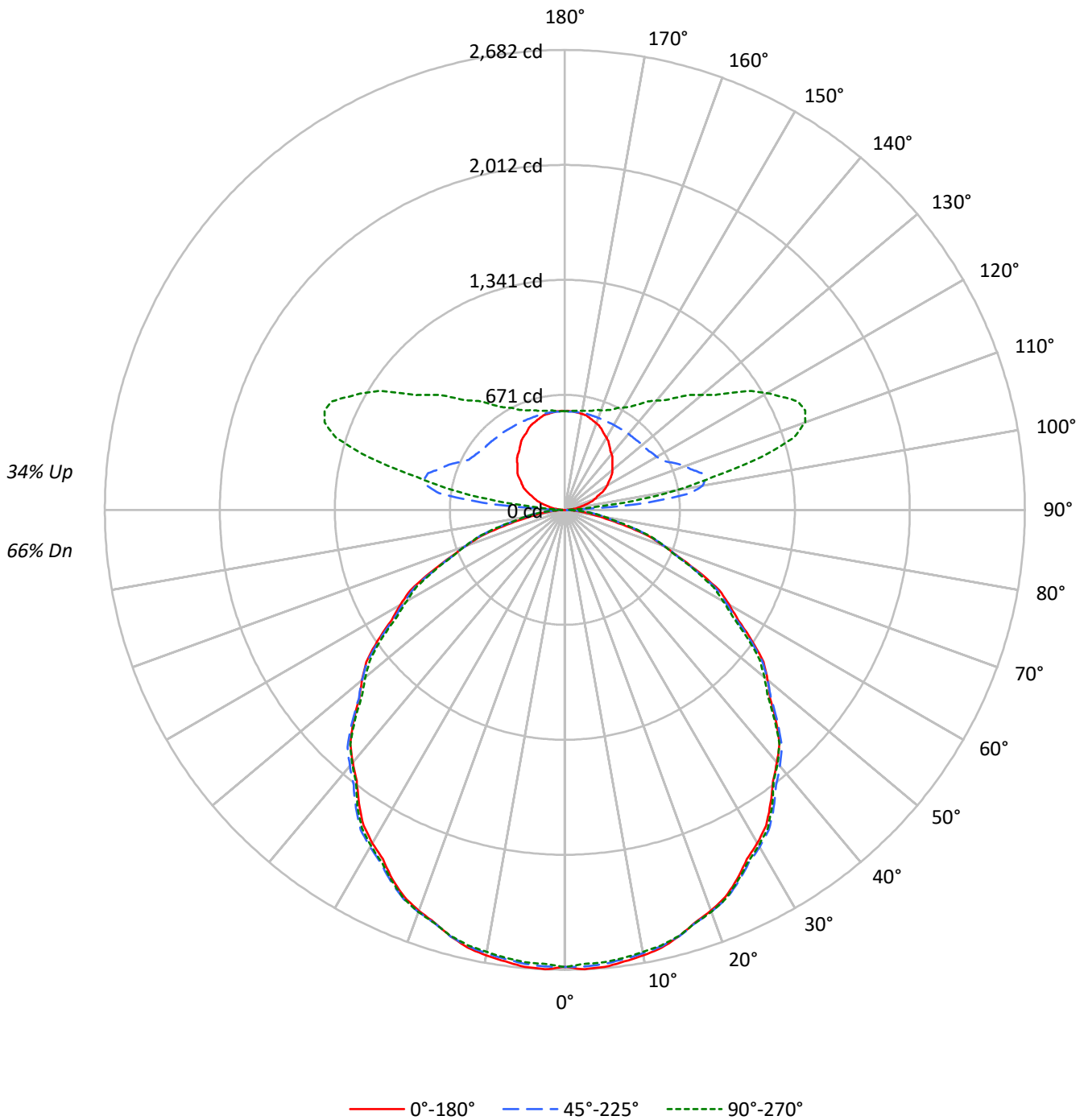
Lumens per Lamp: N/A
Luminaire Lumens: 11038.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 95.4
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	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°	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	2.3
10°-20°	724.0	6.6
20°-30°	1096.4	9.9
30°-40°	1314.4	11.9
40°-50°	1340.3	12.1
50°-60°	1170.0	10.6
60°-70°	837.6	7.6
70°-80°	431.4	3.9
80°-90°	111.3	1.0
90°-100°	276.5	2.5
100°-110°	751.0	6.8
110°-120°	772.2	7.0
120°-130°	617.4	5.6
130°-140°	485.1	4.4
140°-150°	372.0	3.4
150°-160°	267.5	2.4
160°-170°	163.6	1.5
170°-180°	55.1	0.5
0°-30°	2072.7	18.8
0°-40°	3387.1	30.7
0°-60°	5897.3	53.4
0°-90°	7277.7	65.9
90°-120°	1799.7	16.3
90°-150°	3274.1	29.7
90°-180°	3760.0	34.1
0°-180°	11038.0	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	7	13	17	17	5
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	

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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	34.6	42.1	42.7	38.9
90°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)