

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: P562580

Luminaire Tested: **SQ4-PC3-025U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562580
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-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

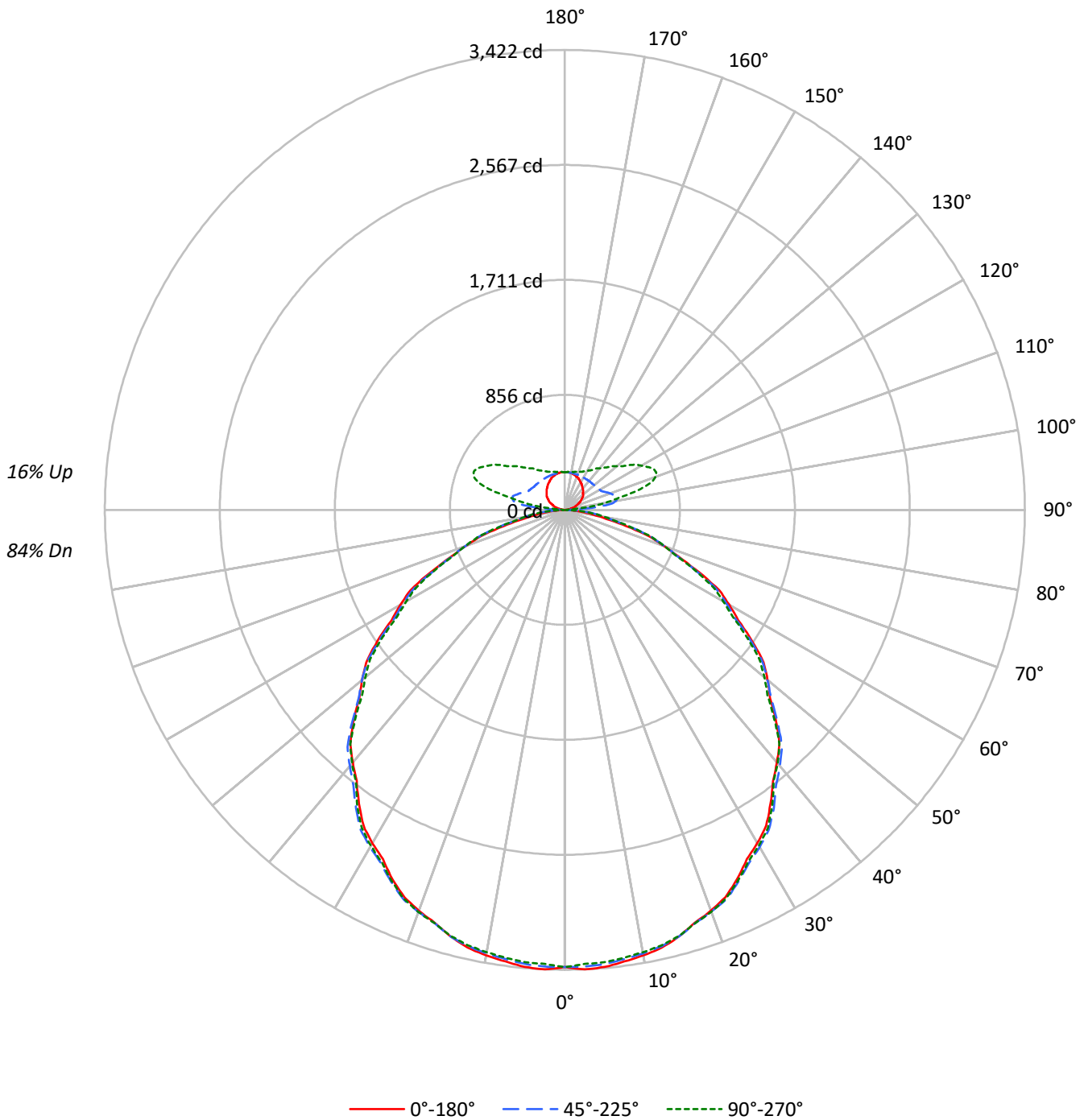
Lumens per Lamp: N/A
Luminaire Lumens: 11109.4 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84				
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71				
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50				
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43				
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37				
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33				
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29				
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26				
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23				
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15691	15691	15675
20°	15587	15634	15634
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15255	15149
40°	14777	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13681	13503	13300
60°	13020	12758	12555
65°	12034	11793	11691
70°	10537	10622	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3668	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	2.9
10°-20°	923.9	8.3
20°-30°	1399.2	12.6
30°-40°	1677.4	15.1
40°-50°	1710.4	15.4
50°-60°	1493.0	13.4
60°-70°	1068.9	9.6
70°-80°	550.5	5.0
80°-90°	140.7	1.3
90°-100°	137.1	1.2
100°-110°	360.4	3.2
110°-120°	373.8	3.4
120°-130°	299.8	2.7
130°-140°	235.2	2.1
140°-150°	180.5	1.6
150°-160°	130.0	1.2
160°-170°	79.6	0.7
170°-180°	26.9	0.2
0°-30°	2645.0	23.8
0°-40°	4322.4	38.9
0°-60°	7525.8	67.7
0°-90°	9286.0	83.6
90°-120°	871.3	7.8
90°-150°	1586.9	14.3
90°-180°	1823.0	16.4
0°-180°	11109.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3392	3383	3380	324
15°	3285	3258	3285	3285	3282	926
25°	3033	3012	3055	3046	3046	1396
35°	2668	2662	2709	2690	2690	1669
45°	2224	2218	2240	2211	2205	1712
55°	1701	1679	1679	1654	1654	1516
65°	1102	1078	1080	1071	1071	1090
75°	476	497	526	529	529	514
85°	69	106	126	129	126	94
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.9	3401.9	3401.9	3401.9	3401.9
2.5°	3422.1	3392.5	3401.9	3394.1	3381.7
5°	3414.5	3380.6	3392.5	3382.9	3379.9
7.5°	3389.9	3356.1	3371.7	3365.3	3362.2
10°	3367.3	3333.4	3351.5	3345.1	3342.1
12.5°	3337.0	3305.6	3326.3	3320.0	3319.4
15°	3285.4	3257.6	3285.4	3285.3	3282.2
17.5°	3220.5	3195.2	3224.9	3226.7	3224.9
20°	3175.1	3147.4	3184.6	3181.5	3184.6
22.5°	3119.7	3096.9	3136.7	3128.6	3131.6
25°	3033.4	3011.8	3055.4	3046.0	3046.0
27.5°	2931.3	2915.9	2963.4	2953.4	2953.4
30°	2863.3	2847.9	2897.9	2885.3	2885.3
32.5°	2787.7	2777.2	2824.8	2809.7	2809.7
35°	2668.0	2661.8	2708.9	2690.0	2690.0
37.5°	2544.5	2539.0	2581.7	2558.8	2551.4
40°	2453.8	2450.7	2488.4	2463.2	2463.2
42.5°	2363.1	2360.0	2392.7	2362.4	2362.4
45°	2223.8	2217.7	2239.6	2211.1	2204.9
47.5°	2072.0	2065.9	2079.6	2048.6	2045.6
50°	1968.7	1962.5	1968.7	1940.3	1937.2
52.5°	1862.9	1851.8	1852.8	1824.4	1823.8
55°	1701.0	1679.4	1678.9	1653.7	1653.7
57.5°	1529.6	1501.3	1503.8	1482.3	1479.2
60°	1411.2	1380.4	1382.8	1363.8	1360.8
62.5°	1295.2	1259.5	1266.9	1245.5	1244.8
65°	1102.5	1077.8	1080.4	1071.0	1071.0
67.5°	917.3	894.5	911.0	903.4	902.8
70°	781.2	765.8	787.5	787.4	784.3
72.5°	655.2	654.6	681.6	681.7	683.5
75°	475.6	497.2	526.0	529.2	529.2
77.5°	317.5	355.7	387.4	388.7	388.1
80°	226.8	269.9	299.2	305.5	302.4
82.5°	153.7	199.3	223.6	229.9	226.8
85°	69.3	106.3	126.0	129.1	126.0
87.5°	20.5	43.4	53.3	51.7	46.8
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



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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)