

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: P562557

Luminaire Tested: **SQ4-PC3-025U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562557
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14462.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

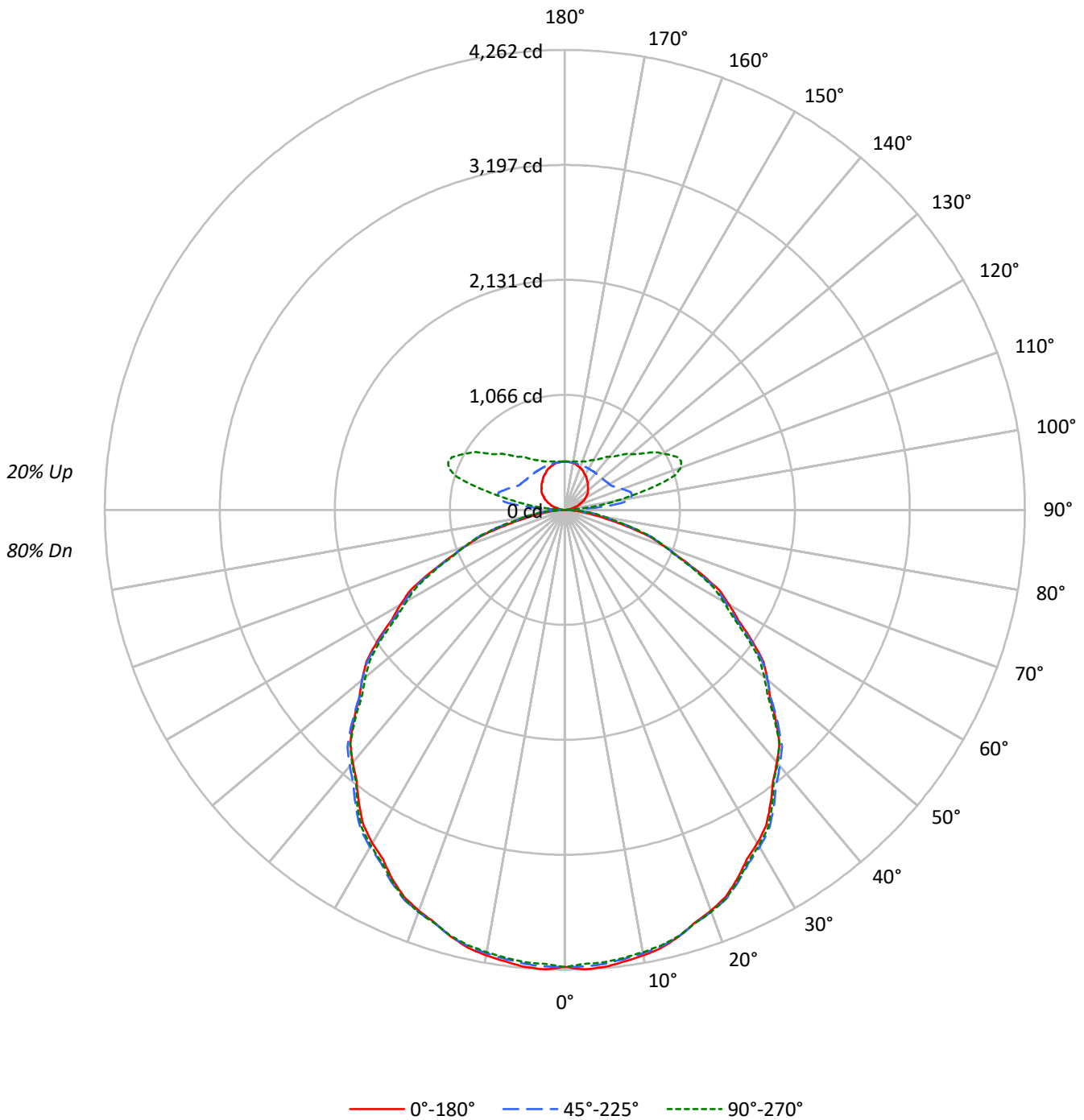
Input Watts (W): 123.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	13029	13029	13029
5°	13127	13042	12993
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12911	12871
30°	12662	12815	12760
35°	12474	12665	12577
40°	12268	12441	12315
45°	12044	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8782
75°	7038	7784	7831
80°	5001	6599	6670
85°	3045	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.9	2.8
10°-20°	1150.5	8.0
20°-30°	1742.4	12.0
30°-40°	2088.9	14.4
40°-50°	2129.9	14.7
50°-60°	1859.3	12.9
60°-70°	1331.1	9.2
70°-80°	685.6	4.7
80°-90°	175.8	1.2
90°-100°	217.9	1.5
100°-110°	572.8	4.0
110°-120°	594.0	4.1
120°-130°	476.5	3.3
130°-140°	373.8	2.6
140°-150°	286.9	2.0
150°-160°	206.7	1.4
160°-170°	126.4	0.9
170°-180°	42.7	0.3
0°-30°	3293.8	22.8
0°-40°	5382.7	37.2
0°-60°	9371.9	64.8
0°-90°	11564.3	80.0
90°-120°	1384.7	9.6
90°-150°	2521.9	17.4
90°-180°	2898.0	20.0
0°-180°	14462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4236	4236	4236	4236	4236	
5°	4252	4210	4225	4213	4209	404
15°	4091	4057	4091	4091	4087	1154
25°	3777	3751	3805	3793	3793	1738
35°	3322	3315	3373	3350	3350	2078
45°	2769	2762	2789	2754	2746	2132
55°	2118	2091	2091	2059	2059	1888
65°	1373	1342	1345	1334	1334	1358
75°	592	619	655	659	659	640
85°	86	132	157	161	157	117
90°	3	8	23	12	12	6
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4261.5	4224.7	4236.4	4226.6	4211.3
5°	4252.1	4209.9	4224.6	4212.8	4208.9
7.5°	4221.5	4179.3	4198.7	4190.8	4187.0
10°	4193.2	4151.0	4173.6	4165.7	4161.9
12.5°	4155.6	4116.5	4142.2	4134.4	4133.6
15°	4091.2	4056.7	4091.2	4091.2	4087.3
17.5°	4010.4	3979.0	4015.9	4018.2	4015.9
20°	3954.0	3919.4	3965.7	3961.9	3965.7
22.5°	3884.9	3856.5	3906.1	3896.0	3899.8
25°	3777.4	3750.6	3804.9	3793.1	3793.1
27.5°	3650.4	3631.2	3690.4	3677.8	3677.8
30°	3565.6	3546.4	3608.8	3593.1	3593.1
32.5°	3471.5	3458.4	3517.8	3498.9	3498.9
35°	3322.4	3314.8	3373.4	3349.9	3349.9
37.5°	3168.7	3161.8	3214.9	3186.5	3177.3
40°	3055.7	3051.9	3098.8	3067.5	3067.5
42.5°	2942.7	2938.9	2979.6	2941.9	2941.9
45°	2769.3	2761.7	2789.0	2753.5	2745.8
47.5°	2580.3	2572.6	2589.7	2551.2	2547.3
50°	2451.6	2443.9	2451.6	2416.2	2412.4
52.5°	2319.8	2306.0	2307.3	2271.9	2271.2
55°	2118.2	2091.3	2090.7	2059.4	2059.4
57.5°	1904.8	1869.5	1872.6	1845.9	1842.0
60°	1757.3	1719.0	1722.0	1698.4	1694.6
62.5°	1613.0	1568.5	1577.7	1551.0	1550.2
65°	1372.9	1342.2	1345.4	1333.7	1333.7
67.5°	1142.3	1113.9	1134.4	1125.0	1124.2
70°	972.8	953.6	980.6	980.6	976.7
72.5°	815.9	815.1	848.8	848.9	851.2
75°	592.3	619.2	655.1	659.0	659.0
77.5°	395.4	443.0	482.5	484.0	483.3
80°	282.4	336.1	372.6	380.4	376.6
82.5°	191.4	248.2	278.5	286.3	282.4
85°	86.3	132.3	156.9	160.7	156.9
87.5°	25.7	54.4	67.3	64.9	58.8
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)