

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: P519646

Luminaire Tested: **SQ4-025U-0D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519646
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-025U-0D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1823.4 lumens
Efficiency: N/A
Efficacy: 173.7 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Indirect

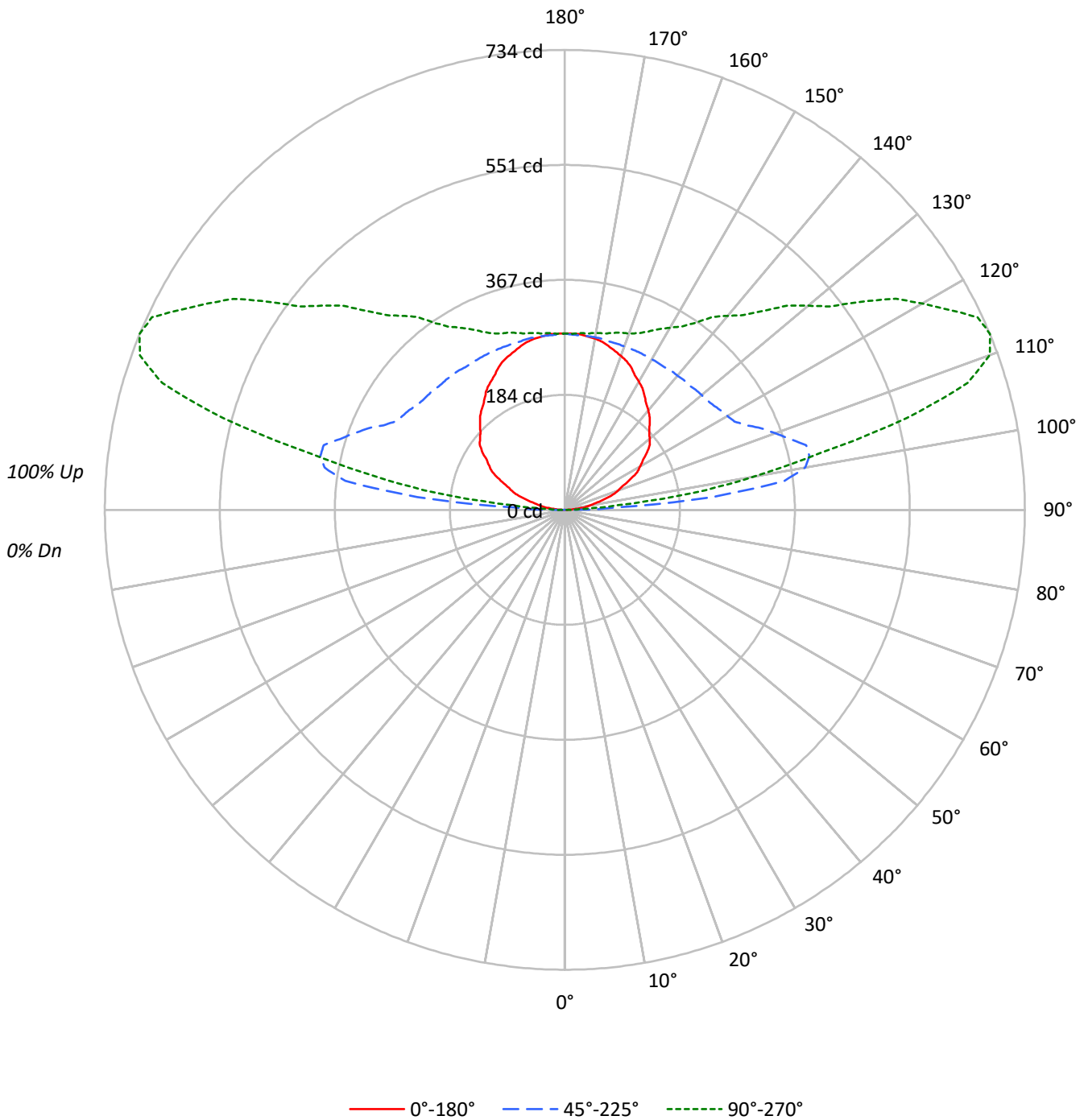
Input Watts (W): 10.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20								20				20				20	
RC	80								50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	953	12502	4393
100°	1102	10347	8145
105°	1157	7103	10061
110°	1217	4816	9730
115°	1260	3484	7933
120°	1282	2762	6073
125°	1291	2335	4656
130°	1268	2045	3636
135°	1247	1835	2929
140°	1249	1683	2433
145°	1249	1564	2052
150°	1258	1479	1787
155°	1276	1413	1597
160°	1284	1363	1470
165°	1292	1326	1395
170°	1301	1309	1343
175°	1303	1294	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	137.1	7.5
100°-110°	360.4	19.8
110°-120°	373.8	20.5
120°-130°	299.8	16.4
130°-140°	235.2	12.9
140°-150°	180.5	9.9
150°-160°	130.0	7.1
160°-170°	79.6	4.4
170°-180°	26.9	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	871.3	47.8
90°-150°	1586.9	87.0
90°-180°	1823.0	100.0
0°-180°	1823.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	2	5	14	7	7	
95°	18	71	236	122	83	21
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°
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
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)