

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: P519647

Luminaire Tested: **SQ4-025U-0D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519647
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

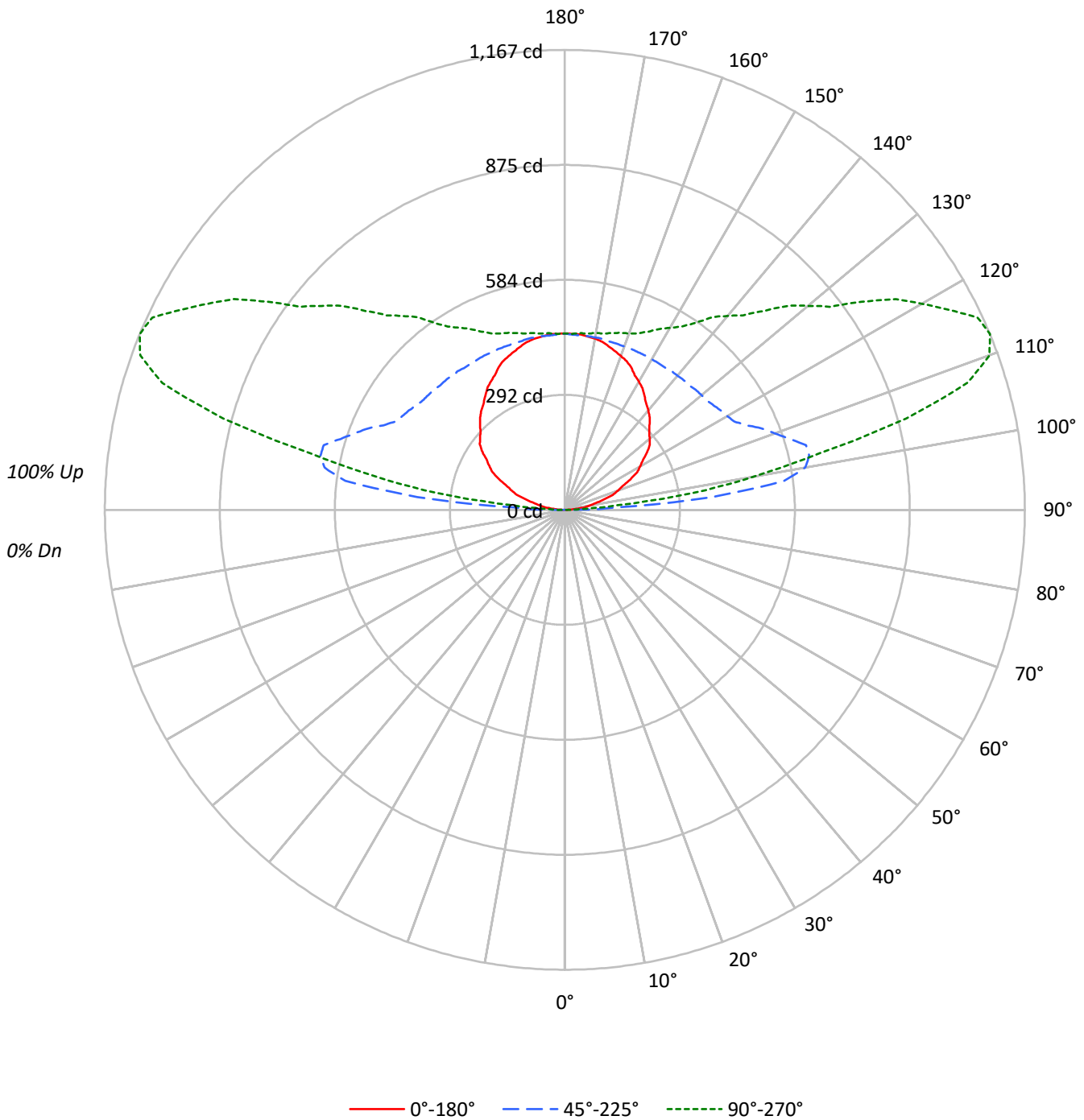
Lumens per Lamp: N/A
Luminaire Lumens: 2897.7 lumens
Efficiency: N/A
Efficacy: 188.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Indirect

Input Watts (W): 15.4
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			
RC	80								50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	0	
RCR																				
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0	0	
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0	0	
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0	0	
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0	0	
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0	0	
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0	0	
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0	0	
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0	0	
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0	0	
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0	0	
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0	0	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	1013	13246	4651
100°	1167	10963	8629
105°	1226	7526	10659
110°	1289	5102	10307
115°	1335	3692	8404
120°	1357	2926	6434
125°	1368	2474	4932
130°	1344	2166	3853
135°	1321	1945	3104
140°	1323	1783	2577
145°	1323	1657	2173
150°	1333	1567	1893
155°	1352	1497	1692
160°	1360	1444	1557
165°	1369	1405	1478
170°	1378	1387	1423
175°	1380	1371	1389



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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°	217.9	7.5
100°-110°	572.8	19.8
110°-120°	594.0	20.5
120°-130°	476.5	16.4
130°-140°	373.8	12.9
140°-150°	286.9	9.9
150°-160°	206.7	7.1
160°-170°	126.4	4.4
170°-180°	42.7	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°	1384.7	47.8
90°-150°	2521.9	87.0
90°-180°	2898.0	100.0
0°-180°	2897.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	3	8	23	12	12	
95°	29	113	375	194	132	34
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°
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
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)