

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: P519706

Luminaire Tested: **SQ4-075U-0D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519706
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-075U-0D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

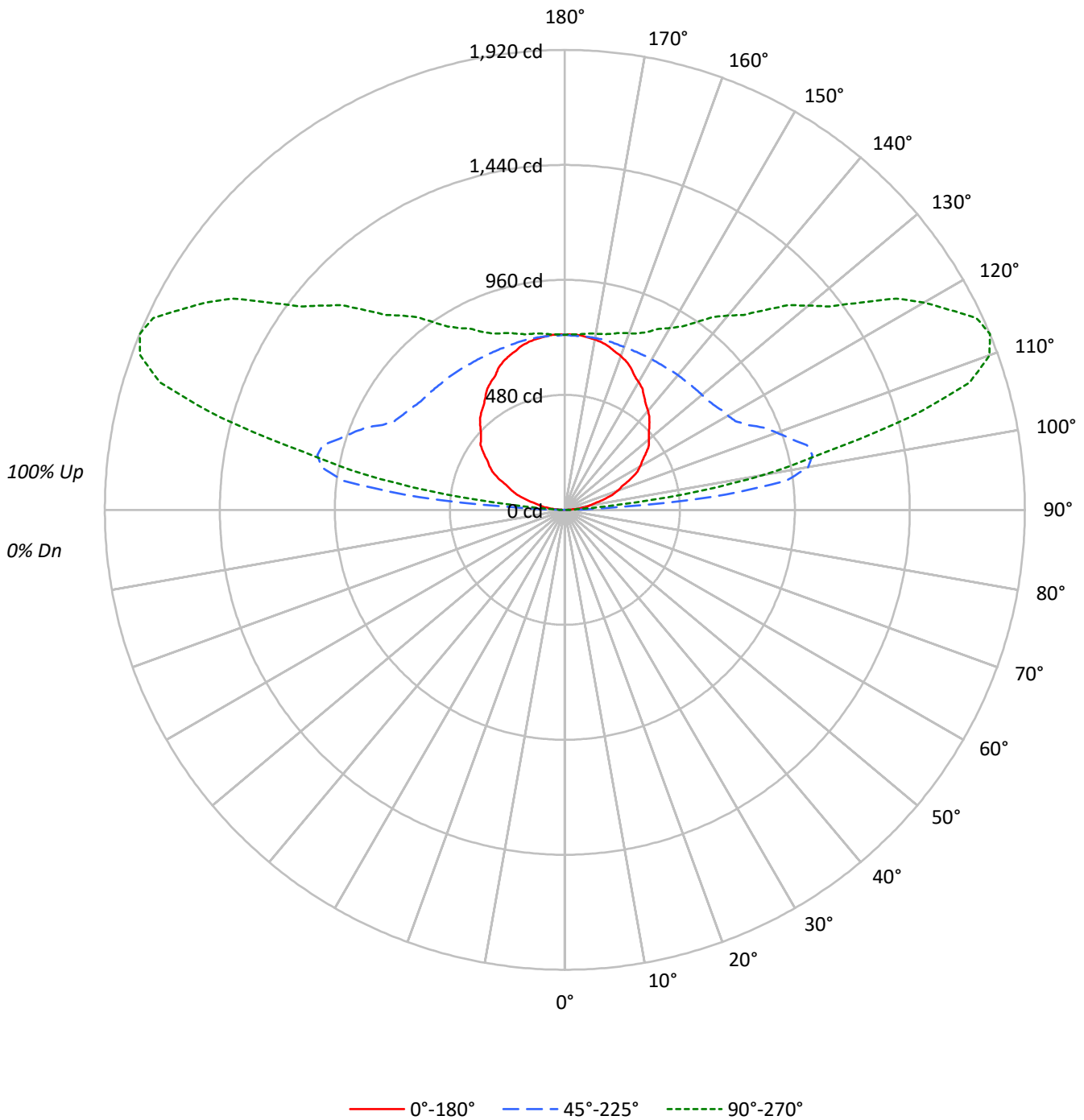
Lumens per Lamp: N/A
Luminaire Lumens: 4764.6 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Indirect

Input Watts (W): 36.6
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



TEST NUMBER: P519706
CATALOG NUMBER: SQ4-075U-0D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P519706

CATALOG NUMBER: SQ4-075U-0D-930-1D-UNV-STD-W-8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	2721	32287	8813
100°	2853	27408	22570
105°	3023	18638	26488
110°	3170	12699	25438
115°	3278	9156	20689
120°	3345	7250	15965
125°	3329	6120	12128
130°	3283	5360	9515
135°	3259	4822	7685
140°	3252	4423	6372
145°	3251	4101	5381
150°	3282	3863	4667
155°	3327	3683	4174
160°	3353	3552	3850
165°	3374	3471	3634
170°	3382	3412	3499
175°	3387	3373	3408



TEST NUMBER: P519706

CATALOG NUMBER: SQ4-075U-0D-930-1D-UNV-STD-W-8

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°	344.9	7.2
100°-110°	949.1	19.9
110°-120°	979.6	20.6
120°-130°	784.8	16.5
130°-140°	616.4	12.9
140°-150°	472.4	9.9
150°-160°	339.7	7.1
160°-170°	207.7	4.4
170°-180°	70.0	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°	2273.6	47.7
90°-150°	4147.3	87.0
90°-180°	4765.0	100.0
0°-180°	4764.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	2	6	11	14	14	
95°	51	188	610	261	166	57
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	



TEST NUMBER: P519706

CATALOG NUMBER: SQ4-075U-0D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)