

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: P519671

Luminaire Tested: **SQ4-050U-0D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519671
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-050U-0D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

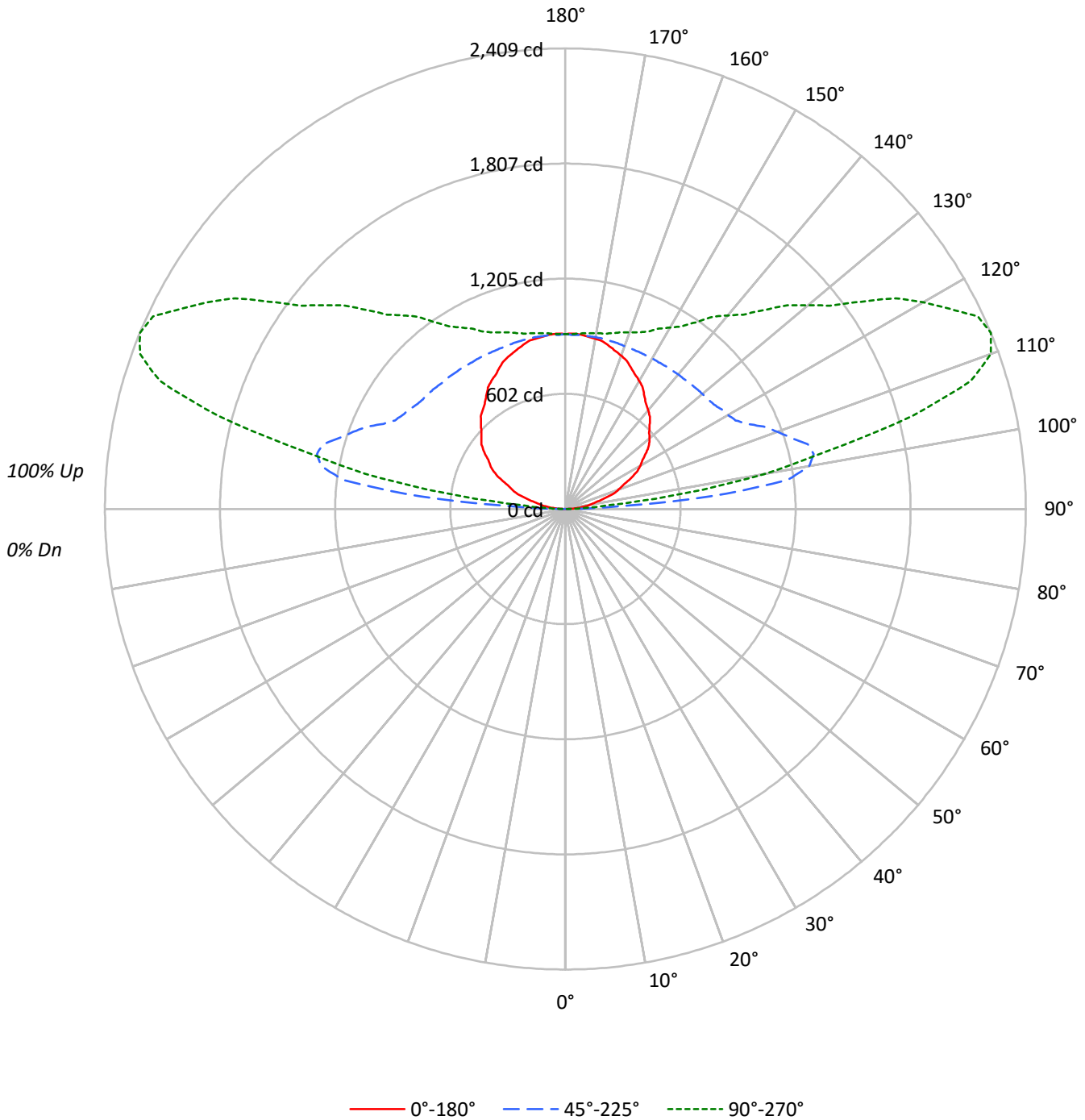
Lumens per Lamp: N/A
Luminaire Lumens: 5975.7 lumens
Efficiency: N/A
Efficacy: 228.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.2
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: P519671
CATALOG NUMBER: SQ4-050U-0D-835-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P519671

CATALOG NUMBER: SQ4-050U-0D-835-1D-UNV-STD-W-12

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°	2283	26998	7894
100°	2398	22985	18816
105°	2518	15596	22345
110°	2672	10611	21302
115°	2741	7645	17325
120°	2788	6046	13304
125°	2777	5096	10130
130°	2746	4477	7927
135°	2714	4019	6400
140°	2705	3686	5305
145°	2707	3425	4474
150°	2749	3229	3887
155°	2766	3076	3475
160°	2793	2966	3217
165°	2811	2895	3026
170°	2821	2849	2913
175°	2825	2816	2844



TEST NUMBER: P519671

CATALOG NUMBER: SQ4-050U-0D-835-1D-UNV-STD-W-12

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°	439.4	7.4
100°-110°	1193.5	20.0
110°-120°	1227.1	20.5
120°-130°	981.1	16.4
130°-140°	770.9	12.9
140°-150°	591.1	9.9
150°-160°	425.1	7.1
160°-170°	260.0	4.4
170°-180°	87.6	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°	2860.0	47.9
90°-150°	5203.1	87.1
90°-180°	5976.0	100.0
0°-180°	5975.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	3	12	21	26	26	
95°	65	240	765	333	224	73
105°	212	330	1312	1998	1880	225
115°	377	457	1051	2090	2381	372
125°	518	590	950	1602	1889	462
135°	624	693	924	1304	1471	482
145°	721	773	912	1108	1192	453
155°	815	844	906	995	1024	376
165°	883	894	909	948	950	249
175°	915	918	912	924	921	87
180°	915	915	915	915	915	



TEST NUMBER: P519671

CATALOG NUMBER: SQ4-050U-0D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	2.9	11.6	20.6	26.5	26.5
92.5°	26.5	120.3	208.9	89.7	75.9
95°	64.7	240.3	765.1	333.0	223.7
97.5°	107.1	265.4	1173.0	912.6	641.0
100°	135.4	282.1	1297.8	1315.6	1062.4
102.5°	163.6	298.9	1330.8	1627.0	1403.7
105°	211.9	329.9	1312.5	1998.4	1880.5
107.5°	261.9	366.1	1236.6	2190.2	2223.0
110°	297.2	392.2	1180.1	2228.0	2369.0
112.5°	327.8	418.2	1123.6	2196.7	2409.0
115°	376.7	457.3	1050.6	2090.1	2380.8
117.5°	422.6	499.7	1004.1	1939.1	2266.6
120°	453.2	528.0	982.9	1837.8	2163.0
122.5°	479.1	553.9	968.8	1736.3	2050.0
125°	517.9	589.9	950.5	1601.6	1889.3
127.5°	552.7	624.0	940.5	1499.4	1746.3
130°	573.9	642.9	935.8	1435.3	1656.8
132.5°	595.0	664.1	931.1	1380.5	1576.8
135°	623.9	692.9	924.1	1304.5	1471.4
137.5°	655.1	717.8	920.5	1237.4	1377.8
140°	673.9	734.3	918.2	1194.7	1321.3
142.5°	692.7	748.6	915.8	1161.3	1267.2
145°	721.0	772.8	912.3	1108.4	1191.8
147.5°	752.8	797.1	909.3	1066.8	1132.4
150°	774.0	811.4	909.3	1042.9	1094.7
152.5°	790.4	823.2	907.0	1021.5	1064.1
155°	815.2	843.9	906.4	995.3	1024.1
157.5°	839.3	861.7	906.4	977.5	999.4
160°	853.4	873.6	906.4	965.6	982.9
162.5°	867.5	883.1	908.7	956.1	968.8
165°	882.9	894.4	909.3	947.7	950.5
167.5°	898.7	904.5	912.3	937.6	939.9
170°	903.5	909.2	912.3	932.9	932.9
172.5°	908.2	911.6	912.3	928.2	928.2
175°	915.2	918.1	912.3	924.0	921.1
177.5°	917.6	917.6	910.5	919.8	915.2
180°	915.2	915.2	915.2	915.2	915.2

(END OF REPORT)