

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: P519744

Luminaire Tested: **SQ4-125U-0D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519744
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-125U-0D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

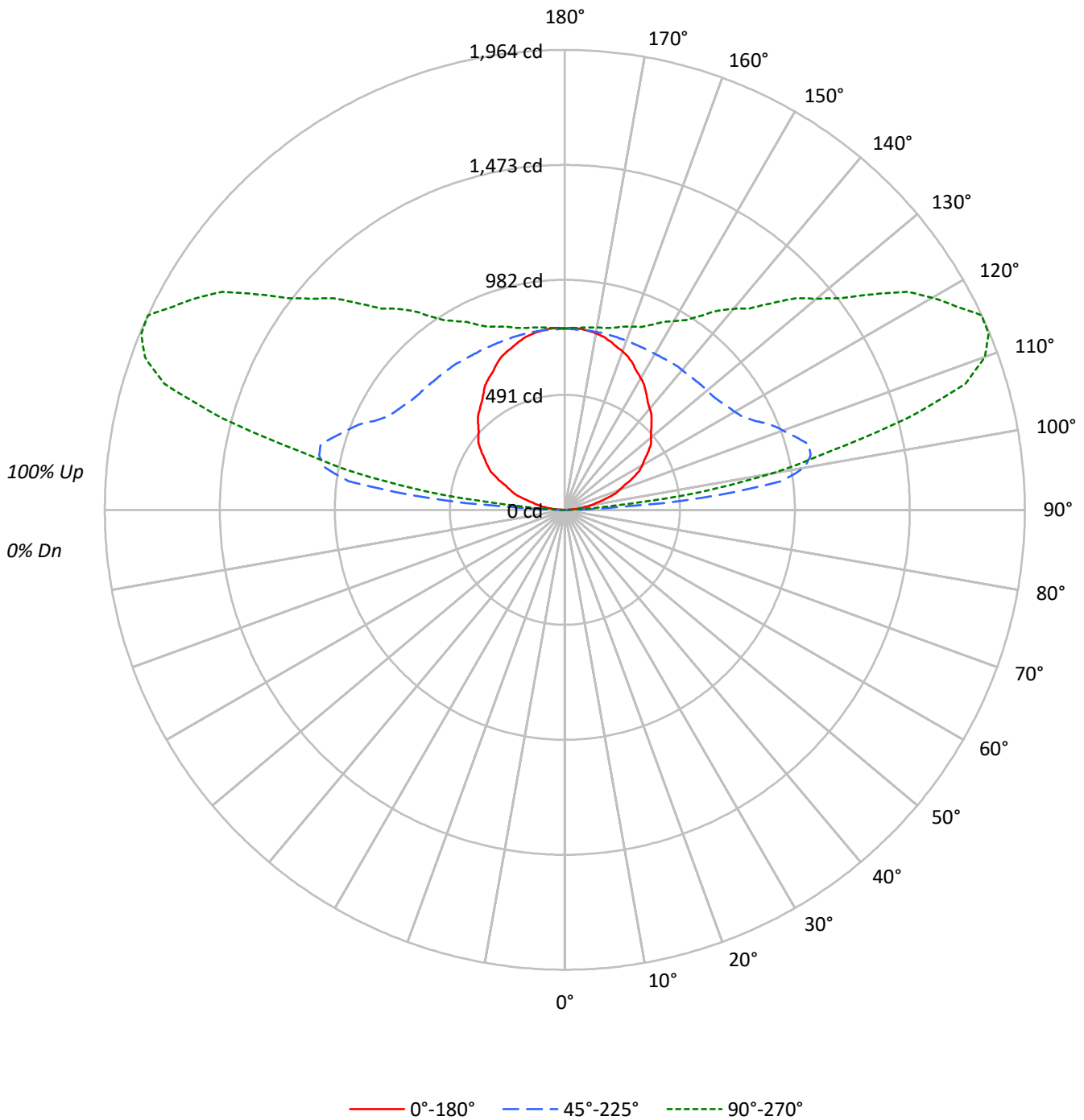
Lumens per Lamp: N/A
Luminaire Lumens: 4999.3 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 31.7
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: P519744
CATALOG NUMBER: SQ4-125U-0D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519744

CATALOG NUMBER: SQ4-125U-0D-835-1D-UNV-STD-W-4

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	5843	62870	22241
100°	6025	55193	47909
105°	6434	38474	54016
110°	6679	26746	51467
115°	6955	19620	42881
120°	7064	15456	33439
125°	6999	12981	25819
130°	6910	11385	20121
135°	6834	10233	16258
140°	6796	9387	13498
145°	6822	8722	11378
150°	6915	8198	9911
155°	7000	7813	8868
160°	7071	7545	8165
165°	7124	7360	7689
170°	7172	7228	7403
175°	7181	7145	7227



TEST NUMBER: P519744

CATALOG NUMBER: SQ4-125U-0D-835-1D-UNV-STD-W-4

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°	362.3	7.2
100°-110°	975.9	19.5
110°-120°	1024.2	20.5
120°-130°	831.1	16.6
130°-140°	651.8	13.0
140°-150°	500.4	10.0
150°-160°	359.8	7.2
160°-170°	219.8	4.4
170°-180°	74.1	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°	2362.3	47.3
90°-150°	4345.6	86.9
90°-180°	4999.0	100.0
0°-180°	4999.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	2	6	12	13	13	
95°	55	197	594	304	210	61
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	



TEST NUMBER: P519744

CATALOG NUMBER: SQ4-125U-OD-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)