

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: P561883

Luminaire Tested: **SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561883
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5264.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

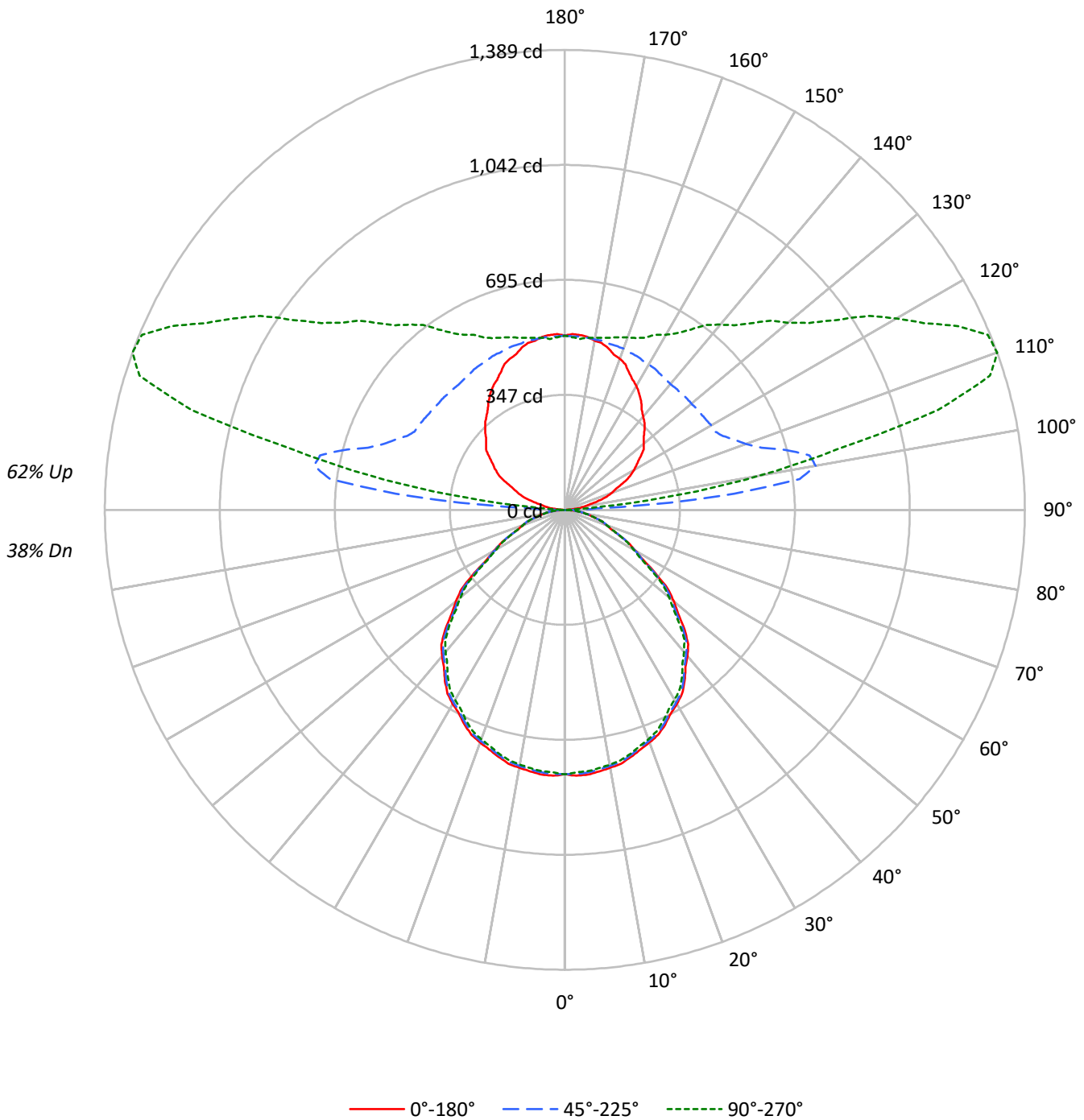
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7369	7369	7369
5°	7435	7378	7340
10°	7411	7360	7322
15°	7379	7333	7294
20°	7342	7295	7241
25°	7290	7241	7158
30°	7211	7160	7058
35°	7105	7043	6943
40°	6943	6869	6745
45°	6660	6543	6409
50°	6162	6013	5895
55°	5377	5257	5146
60°	4532	4493	4405
65°	3919	3934	3906
70°	3601	3617	3617
75°	3458	3458	3483
80°	3252	3289	3252
85°	2625	2911	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.4
10°-20°	216.1	4.1
20°-30°	325.9	6.2
30°-40°	388.3	7.4
40°-50°	382.9	7.3
50°-60°	292.6	5.6
60°-70°	181.1	3.4
70°-80°	102.8	2.0
80°-90°	31.3	0.6
90°-100°	239.7	4.6
100°-110°	682.0	13.0
110°-120°	653.4	12.4
120°-130°	517.2	9.8
130°-140°	415.1	7.9
140°-150°	325.0	6.2
150°-160°	237.8	4.5
160°-170°	147.3	2.8
170°-180°	50.0	0.9
0°-30°	617.6	11.7
0°-40°	1005.9	19.1
0°-60°	1681.4	31.9
0°-90°	1996.6	37.9
90°-120°	1575.1	29.9
90°-150°	2832.3	53.8
90°-180°	3267.0	62.1
0°-180°	5264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	803	794	797	794	792	76
15°	772	764	768	765	764	218
25°	716	707	711	704	703	330
35°	631	623	625	617	616	394
45°	510	504	502	492	491	391
55°	334	329	327	321	320	300
65°	180	178	180	179	179	182
75°	97	97	97	98	98	102
85°	25	26	28	28	28	29
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.7	798.7	798.7	798.7	798.7
2.5°	803.6	796.6	798.7	796.9	793.2
5°	802.8	794.1	796.6	793.8	792.5
7.5°	796.6	788.0	790.6	787.8	787.0
10°	791.1	783.0	785.6	782.8	781.5
12.5°	785.1	776.5	779.6	776.2	774.9
15°	772.5	764.5	767.7	764.9	763.6
17.5°	758.8	750.2	753.4	750.2	748.5
20°	747.8	739.7	743.0	738.1	737.5
22.5°	735.7	727.6	730.9	724.4	724.2
25°	716.1	707.4	711.3	703.7	703.1
27.5°	692.9	684.8	688.1	680.3	679.5
30°	676.9	668.8	672.1	663.8	662.5
32.5°	658.8	651.2	653.9	645.7	644.9
35°	630.8	623.4	625.3	617.1	616.4
37.5°	599.0	592.3	593.4	584.3	583.6
40°	576.5	569.8	570.3	560.6	560.0
42.5°	551.7	545.0	544.4	534.8	534.1
45°	510.4	503.7	501.5	492.5	491.2
47.5°	463.4	456.7	452.5	445.2	444.3
50°	429.3	422.5	418.9	412.7	410.7
52.5°	392.4	385.7	382.6	376.9	374.9
55°	334.3	329.0	326.8	321.2	319.9
57.5°	279.2	275.5	274.9	269.5	269.0
60°	245.6	243.6	243.5	238.7	238.7
62.5°	217.0	215.5	216.6	213.4	212.8
65°	179.5	178.2	180.2	178.9	178.9
67.5°	150.0	150.0	151.2	150.7	150.7
70°	133.5	133.5	134.1	134.1	134.1
72.5°	118.6	118.1	119.8	119.8	119.3
75°	97.0	97.0	97.0	97.7	97.7
77.5°	75.5	75.7	76.2	76.1	75.5
80°	61.2	61.9	61.9	61.2	61.2
82.5°	46.9	47.6	47.6	47.5	46.9
85°	24.8	26.1	27.5	27.5	27.5
87.5°	7.2	9.3	11.0	11.0	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	<i>1381.8</i>
115°	197.0	238.1	527.0	1116.4	<i>1311.0</i>
117.5°	222.0	260.5	511.6	1015.3	<i>1221.4</i>
120°	242.0	274.3	510.0	957.5	<i>1155.0</i>
122.5°	258.0	290.3	506.0	906.8	<i>1090.2</i>
125°	278.0	308.3	503.0	834.7	<i>998.0</i>
127.5°	299.8	328.2	501.4	791.7	<i>926.2</i>
130°	311.0	339.4	499.0	761.7	<i>879.0</i>
132.5°	323.0	350.6	499.0	738.3	<i>846.2</i>
135°	340.0	368.4	497.0	705.1	<i>797.0</i>
137.5°	356.0	383.6	496.8	677.0	<i>756.4</i>
140°	368.0	396.4	496.0	653.7	<i>730.0</i>
142.5°	381.6	405.3	498.4	635.2	<i>703.6</i>
145°	401.0	421.5	501.0	610.2	<i>665.0</i>
147.5°	417.6	437.5	505.4	585.1	<i>632.4</i>
150°	432.0	445.7	507.0	576.8	<i>610.0</i>
152.5°	443.2	457.7	508.6	565.5	<i>596.4</i>
155°	458.0	468.8	513.0	551.5	<i>574.0</i>
157.5°	476.4	482.9	514.0	545.2	<i>561.2</i>
160°	486.0	490.9	518.0	540.3	<i>554.0</i>
162.5°	491.6	497.3	518.8	536.2	<i>546.8</i>
165°	506.0	508.0	519.0	530.2	<i>538.0</i>
167.5°	515.8	514.0	523.6	528.7	<i>531.8</i>
170°	519.0	518.0	522.0	523.1	<i>527.0</i>
172.5°	526.2	522.9	524.4	521.5	<i>524.6</i>
175°	530.0	527.1	525.0	521.9	<i>518.0</i>
177.5°	531.6	526.9	524.4	521.2	<i>522.0</i>
180°	526.0	526.0	526.0	526.0	<i>526.0</i>

(END OF REPORT)