

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: P561779

Luminaire Tested: **SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561779
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-PR1-025U-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 250 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: 3933.4 lumens
Efficiency: N/A
Efficacy: 113.4 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: General Diffuse

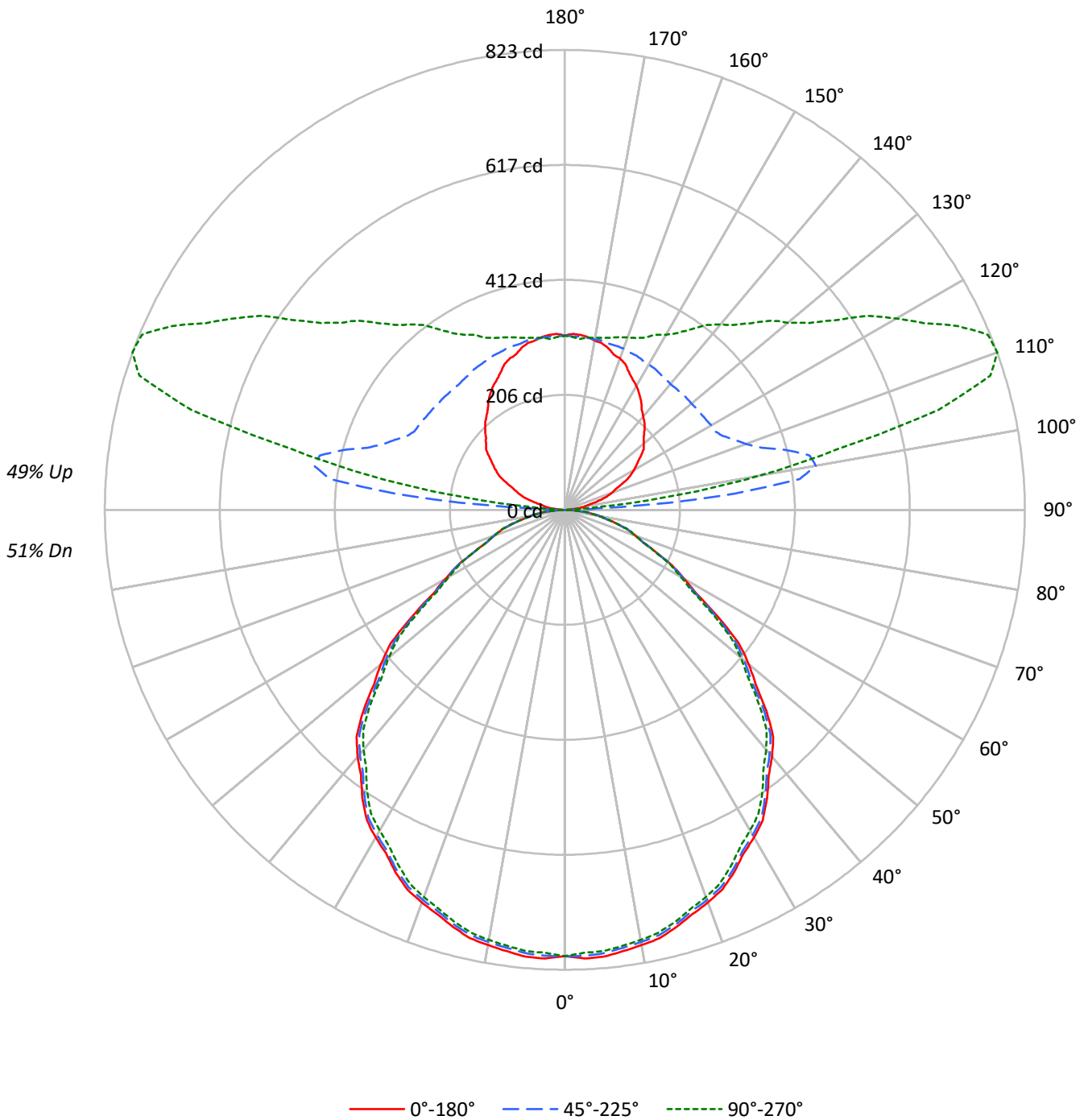
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37
3	82	73	66	60	75	67	61	56	58	53	49	49	45	42	40	38	36	31
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	29	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	14

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	1.9
10°-20°	216.1	5.5
20°-30°	325.9	8.3
30°-40°	388.3	9.9
40°-50°	382.9	9.7
50°-60°	292.6	7.4
60°-70°	181.1	4.6
70°-80°	102.8	2.6
80°-90°	31.3	0.8
90°-100°	142.1	3.6
100°-110°	404.2	10.3
110°-120°	387.3	9.8
120°-130°	306.6	7.8
130°-140°	246.0	6.3
140°-150°	192.6	4.9
150°-160°	140.9	3.6
160°-170°	87.3	2.2
170°-180°	29.6	0.8
0°-30°	617.6	15.7
0°-40°	1005.9	25.6
0°-60°	1681.4	42.7
0°-90°	1996.6	50.8
90°-120°	933.6	23.7
90°-150°	1678.9	42.7
90°-180°	1937.0	49.2
0°-180°	3933.4	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°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	



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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°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)