

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: P523619

Luminaire Tested: **SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523619
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3774.5 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

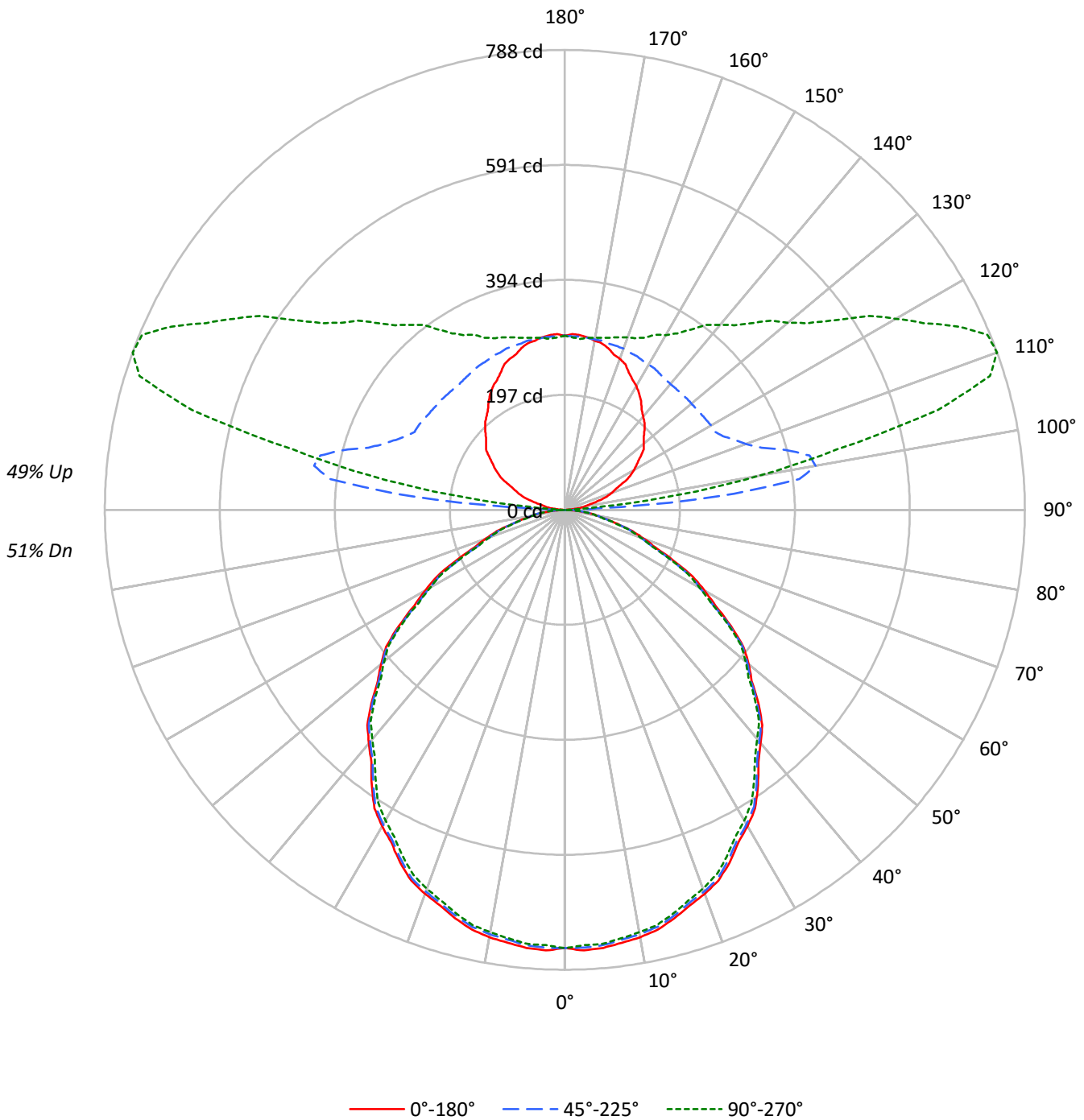
Input Watts (W): 34.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	71	69	62	60	59	51	50	49	43							
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	37							
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35	31							
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	30	27							
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	27	23							
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	23	21							
7	59	46	38	33	54	43	36	31	37	32	28	32	27	24	27	23	21	18							
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	24	21	19	16							
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	23	19	17	15							
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6927	6927	6927
5°	6978	6935	6911
10°	6966	6917	6886
15°	6920	6882	6845
20°	6874	6836	6783
25°	6792	6745	6678
30°	6667	6632	6548
35°	6492	6448	6366
40°	6285	6245	6174
45°	6113	6070	6010
50°	5894	5856	5799
55°	5588	5514	5472
60°	5087	4942	4918
65°	4482	4294	4281
70°	3868	3709	3709
75°	3329	3283	3237
80°	2938	2970	2901
85°	2297	2509	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.9
10°-20°	202.7	5.4
20°-30°	303.6	8.0
30°-40°	356.1	9.4
40°-50°	357.3	9.5
50°-60°	304.8	8.1
60°-70°	198.8	5.3
70°-80°	99.7	2.6
80°-90°	27.6	0.7
90°-100°	135.9	3.6
100°-110°	386.8	10.2
110°-120°	370.6	9.8
120°-130°	293.3	7.8
130°-140°	235.4	6.2
140°-150°	184.3	4.9
150°-160°	134.8	3.6
160°-170°	83.5	2.2
170°-180°	28.3	0.8
0°-30°	577.3	15.3
0°-40°	933.5	24.7
0°-60°	1595.5	42.3
0°-90°	1921.6	50.9
90°-120°	893.2	23.7
90°-150°	1606.2	42.6
90°-180°	1853.0	49.1
0°-180°	3774.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	753	746	749	746	746	72
15°	724	717	720	718	717	204
25°	667	660	663	657	656	307
35°	576	571	572	566	565	360
45°	468	465	465	461	461	361
55°	347	346	343	341	340	309
65°	205	201	197	195	196	205
75°	93	93	92	91	91	101
85°	22	24	24	24	24	26
90°	0	0	0	0	0	1
95°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.8	750.8	750.8	750.8	750.8
2.5°	755.5	749.4	750.8	749.7	746.6
5°	753.4	746.3	748.8	746.2	746.2
7.5°	748.3	740.6	743.0	740.4	740.3
10°	743.6	735.8	738.3	735.6	735.0
12.5°	736.7	729.0	732.0	728.8	728.7
15°	724.5	717.4	720.5	717.9	716.6
17.5°	710.7	702.9	706.7	703.0	702.5
20°	700.1	692.4	696.2	690.9	690.9
22.5°	687.5	679.8	684.1	677.2	677.2
25°	667.2	659.5	662.6	656.7	656.0
27.5°	643.1	635.5	638.8	632.1	632.0
30°	625.8	618.7	622.5	615.2	614.6
32.5°	606.8	600.3	603.0	595.7	595.1
35°	576.4	570.6	572.5	565.9	565.2
37.5°	544.4	538.5	540.6	535.0	534.7
40°	521.8	517.9	518.5	513.9	512.6
42.5°	500.7	496.4	496.9	492.3	492.1
45°	468.5	465.3	465.2	460.6	460.6
47.5°	434.3	431.8	431.1	427.3	427.2
50°	410.6	408.7	408.0	404.7	404.0
52.5°	385.9	385.0	382.7	379.9	379.8
55°	347.4	346.1	342.8	340.8	340.2
57.5°	305.7	303.1	299.4	296.5	297.0
60°	275.7	273.1	267.8	266.5	266.5
62.5°	246.8	243.7	238.3	236.5	237.5
65°	205.3	201.4	196.7	195.4	196.1
67.5°	167.7	164.2	159.1	159.1	158.6
70°	143.4	141.5	137.5	137.5	137.5
72.5°	121.9	121.0	118.0	118.0	117.5
75°	93.4	93.4	92.1	91.4	90.8
77.5°	70.0	70.3	69.6	68.9	67.8
80°	55.3	56.6	55.9	55.3	54.6
82.5°	41.6	42.9	42.8	41.6	41.5
85°	21.7	23.6	23.7	23.7	23.7
87.5°	5.8	7.8	8.4	8.4	8.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)