

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: P523671

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

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523671
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-PP3-050U-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

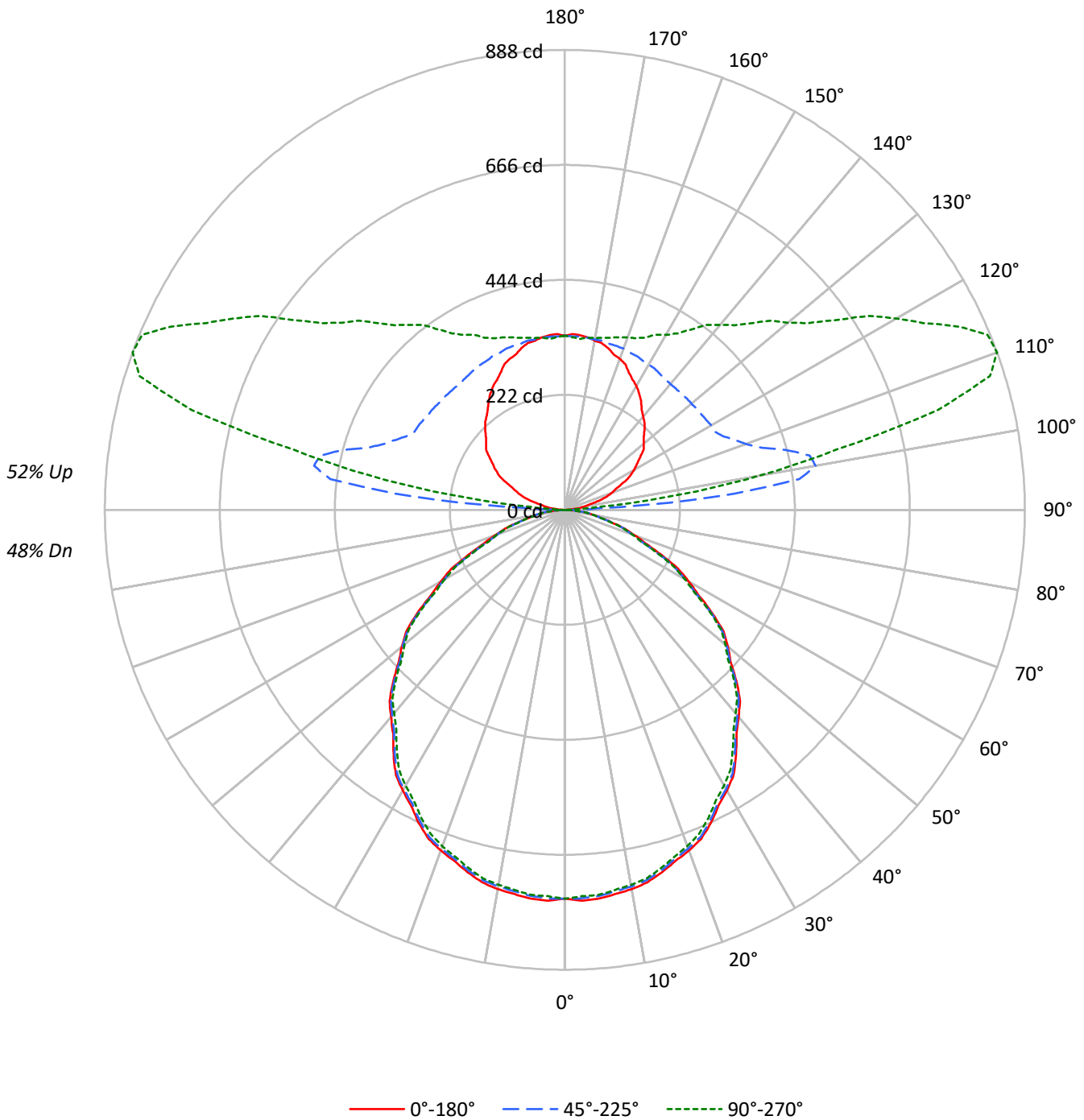
Lumens per Lamp: N/A
Luminaire Lumens: 4009.9 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.4
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48	
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41	
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39	34	34	34	34	
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29	29	29	29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25	25	25	25	
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22	22	22	22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19	19	19	19	
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17	17	17	17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15	15	
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16	14	14	14	14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13	13	13	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	1.8
10°-20°	202.7	5.1
20°-30°	303.6	7.6
30°-40°	356.1	8.9
40°-50°	357.3	8.9
50°-60°	304.8	7.6
60°-70°	198.8	5.0
70°-80°	99.7	2.5
80°-90°	27.6	0.7
90°-100°	153.2	3.8
100°-110°	435.9	10.9
110°-120°	417.6	10.4
120°-130°	330.5	8.2
130°-140°	265.3	6.6
140°-150°	207.7	5.2
150°-160°	152.0	3.8
160°-170°	94.1	2.3
170°-180°	31.9	0.8
0°-30°	577.3	14.4
0°-40°	933.5	23.3
0°-60°	1595.5	39.8
0°-90°	1921.6	47.9
90°-120°	1006.7	25.1
90°-150°	1810.2	45.1
90°-180°	2088.0	52.1
0°-180°	4009.9	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°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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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°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)