

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: P562193

Luminaire Tested: **SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562193
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

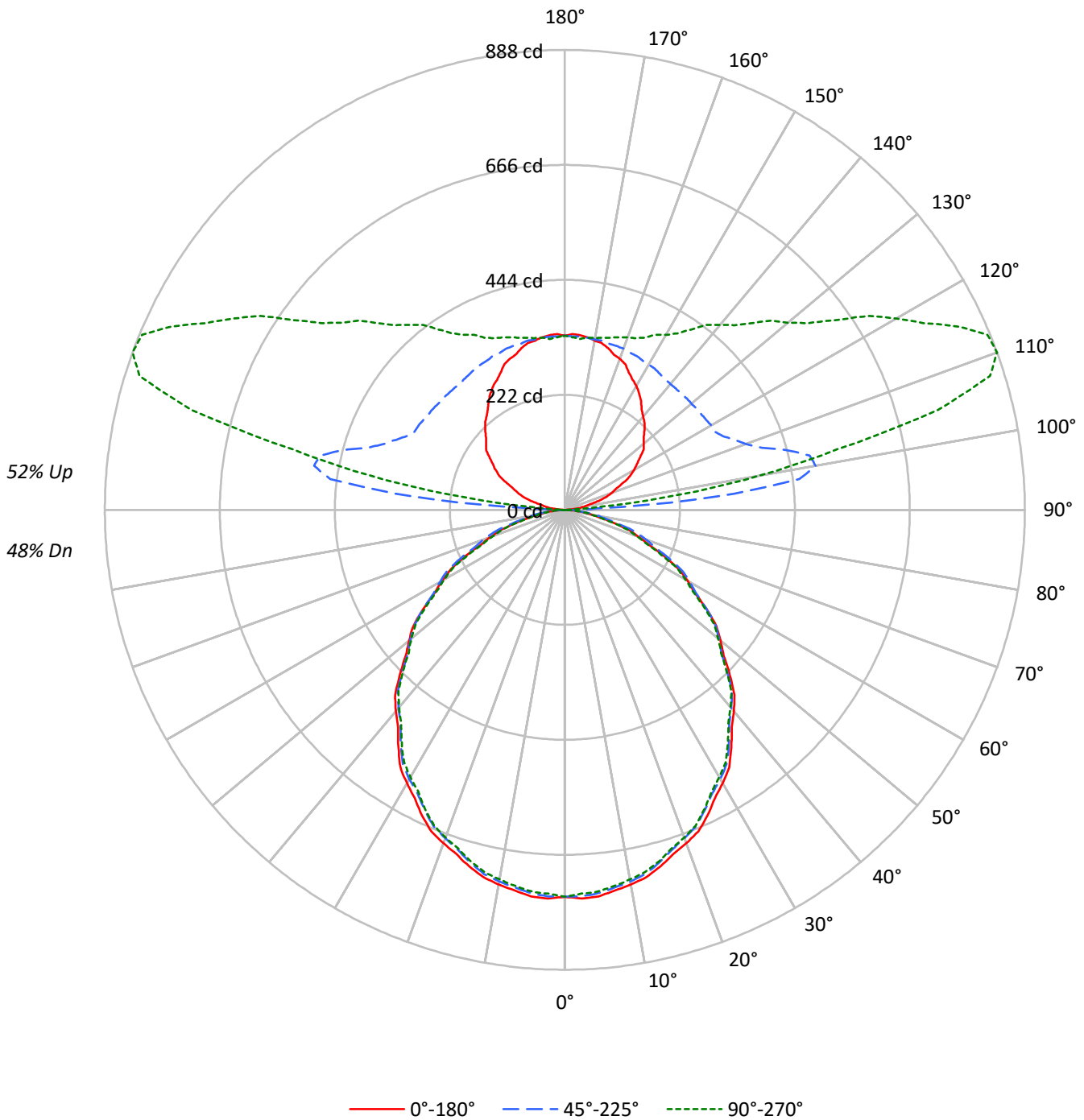
Lumens per Lamp: N/A
Luminaire Lumens: 3988.9 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6892	6892	6892
5°	6937	6882	6852
10°	6881	6826	6788
15°	6808	6733	6708
20°	6728	6623	6611
25°	6633	6512	6493
30°	6493	6394	6353
35°	6308	6219	6182
40°	6111	6016	5993
45°	5874	5797	5771
50°	5631	5583	5545
55°	5368	5368	5282
60°	5039	5137	4954
65°	4613	4842	4497
70°	4065	4456	3960
75°	3472	3989	3379
80°	2694	3358	2726
85°	1747	2583	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.8
10°-20°	198.6	5.0
20°-30°	294.6	7.4
30°-40°	344.7	8.6
40°-50°	343.2	8.6
50°-60°	296.3	7.4
60°-70°	213.3	5.3
70°-80°	111.9	2.8
80°-90°	27.7	0.7
90°-100°	153.2	3.8
100°-110°	435.9	10.9
110°-120°	417.6	10.5
120°-130°	330.5	8.3
130°-140°	265.3	6.7
140°-150°	207.7	5.2
150°-160°	152.0	3.8
160°-170°	94.1	2.4
170°-180°	31.9	0.8
0°-30°	563.5	14.1
0°-40°	908.2	22.8
0°-60°	1547.7	38.8
0°-90°	1900.6	47.6
90°-120°	1006.7	25.2
90°-150°	1810.2	45.4
90°-180°	2088.0	52.3
0°-180°	3988.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	749	741	743	741	740	71
15°	713	704	705	704	702	201
25°	652	641	640	636	638	300
35°	560	552	552	547	549	350
45°	450	446	444	443	442	347
55°	334	333	334	329	328	298
65°	211	218	222	213	206	209
75°	97	106	112	104	95	104
85°	16	22	24	23	22	22
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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CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	751.2	745.1	747.0	745.4	741.8
5°	749.0	740.6	743.1	741.1	739.8
7.5°	741.4	733.6	735.4	733.3	732.5
10°	734.5	726.8	728.6	725.9	724.6
12.5°	726.6	718.4	720.2	717.5	716.7
15°	712.8	703.8	704.9	703.6	702.3
17.5°	696.7	687.6	687.8	685.7	685.4
20°	685.2	675.5	674.6	672.0	673.3
22.5°	672.5	662.3	661.5	657.8	659.6
25°	651.6	640.6	639.7	635.8	637.8
27.5°	627.4	616.6	616.6	611.1	613.1
30°	609.5	599.2	600.2	593.7	596.3
32.5°	590.5	581.2	581.8	575.3	577.9
35°	560.1	552.4	552.2	547.0	548.9
37.5°	529.0	522.2	521.1	518.1	518.6
40°	507.4	501.7	499.5	497.6	497.6
42.5°	484.8	479.5	477.4	476.0	475.5
45°	450.2	446.3	444.3	442.9	442.3
47.5°	416.0	412.4	410.6	409.6	409.0
50°	392.3	389.7	389.0	387.0	386.3
52.5°	368.6	367.0	366.3	363.8	363.2
55°	333.7	333.0	333.7	329.1	328.4
57.5°	297.4	298.4	300.5	294.3	292.8
60°	273.1	275.7	278.4	271.1	268.5
62.5°	248.4	252.5	256.3	247.9	244.3
65°	211.3	217.7	221.8	213.1	206.0
67.5°	175.5	183.4	188.4	179.0	171.0
70°	150.7	159.7	165.2	155.8	146.8
72.5°	129.1	139.2	143.6	134.7	125.7
75°	97.4	106.4	111.9	104.4	94.8
77.5°	69.1	77.6	82.1	75.6	67.7
80°	50.7	59.7	63.2	57.8	51.3
82.5°	35.9	43.4	45.8	42.5	38.2
85°	16.5	21.6	24.4	23.0	21.7
87.5°	4.2	7.8	10.0	10.0	10.5
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)