

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: P523646

Luminaire Tested: **SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523646
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-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5752.9 lumens
Efficiency: N/A
Efficacy: 102.0 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: Semi-Direct

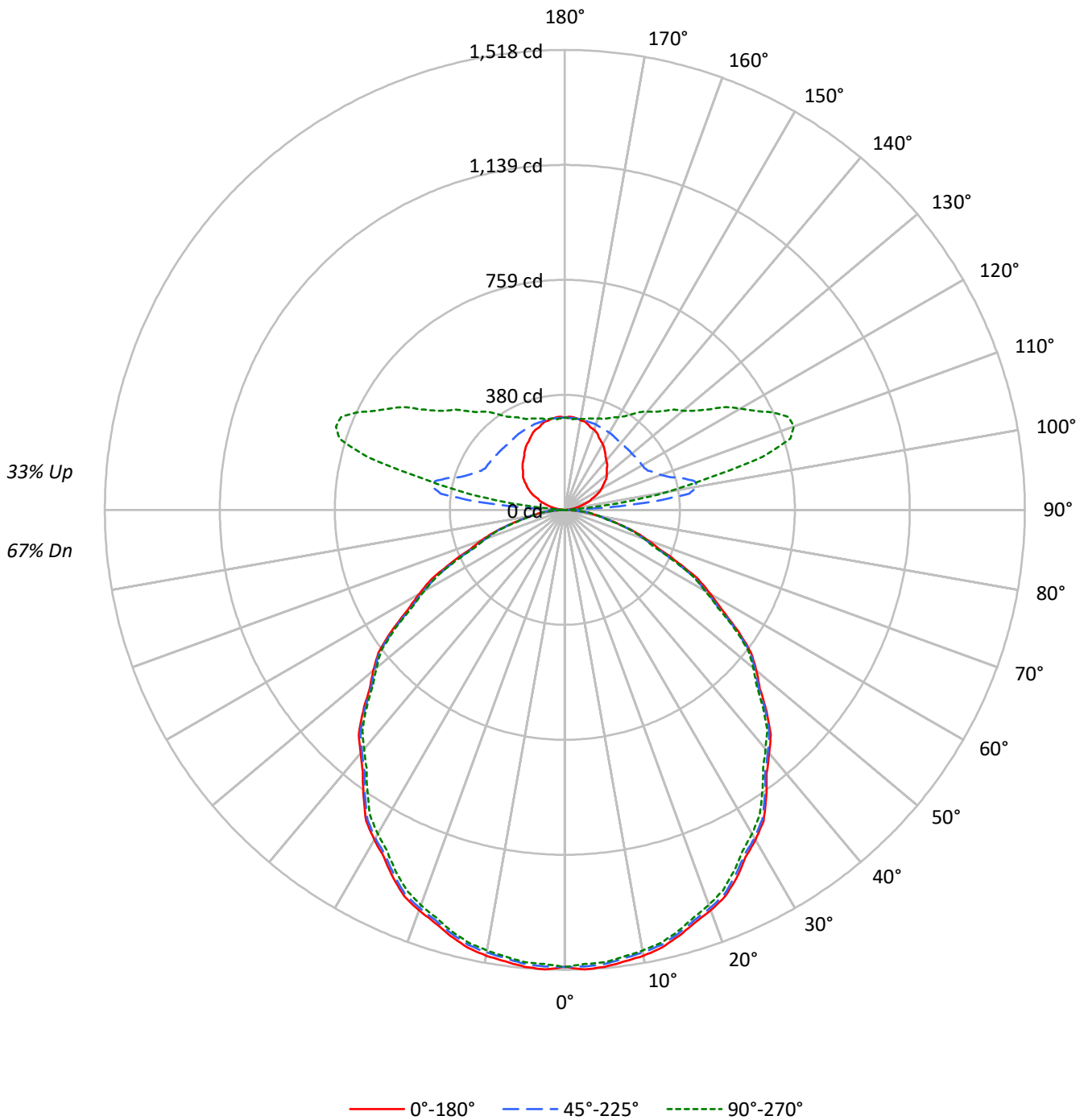
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	79	74	87	81	75	71	72	68	64	64	61	58	57	54	52	48
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	40	62	51	44	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	26	24
8	57	44	36	31	54	42	35	30	38	32	28	35	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13920	13920	13920
5°	14022	13937	13888
10°	13998	13899	13837
15°	13906	13830	13754
20°	13813	13736	13632
25°	13649	13556	13420
30°	13397	13326	13157
35°	13046	12957	12794
40°	12629	12550	12406
45°	12285	12198	12077
50°	11843	11767	11654
55°	11231	11081	10996
60°	10223	9931	9881
65°	9007	8632	8601
70°	7777	7456	7456
75°	6695	6598	6506
80°	5903	5972	5834
85°	4615	5039	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	2.5
10°-20°	407.4	7.1
20°-30°	610.2	10.6
30°-40°	715.7	12.4
40°-50°	717.9	12.5
50°-60°	612.5	10.6
60°-70°	399.4	6.9
70°-80°	200.4	3.5
80°-90°	55.5	1.0
90°-100°	138.8	2.4
100°-110°	394.8	6.9
110°-120°	378.2	6.6
120°-130°	299.4	5.2
130°-140°	240.3	4.2
140°-150°	188.1	3.3
150°-160°	137.6	2.4
160°-170°	85.3	1.5
170°-180°	28.9	0.5
0°-30°	1160.2	20.2
0°-40°	1875.9	32.6
0°-60°	3206.3	55.7
0°-90°	3861.6	67.1
90°-120°	911.8	15.8
90°-150°	1639.5	28.5
90°-180°	1891.0	32.9
0°-180°	5752.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1514	1500	1505	1500	1500	144
15°	1456	1442	1448	1443	1440	411
25°	1341	1325	1332	1320	1318	617
35°	1158	1147	1150	1137	1136	724
45°	942	935	935	926	926	725
55°	698	696	689	685	684	620
65°	413	405	395	393	394	412
75°	188	188	185	184	182	204
85°	44	48	48	48	48	51
90°	0	0	0	0	0	2
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1518.3	1505.9	1508.7	1506.5	1500.3
5°	1514.0	1499.8	1504.8	1499.5	1499.5
7.5°	1503.7	1488.2	1493.1	1487.8	1487.6
10°	1494.2	1478.7	1483.6	1478.3	1477.0
12.5°	1480.4	1464.9	1470.9	1464.6	1464.3
15°	1455.9	1441.6	1447.9	1442.6	1440.0
17.5°	1428.1	1412.6	1420.2	1412.7	1411.7
20°	1406.9	1391.4	1399.0	1388.4	1388.4
22.5°	1381.5	1366.0	1374.7	1360.9	1360.9
25°	1340.8	1325.3	1331.6	1319.6	1318.3
27.5°	1292.4	1277.2	1283.7	1270.2	1269.9
30°	1257.5	1243.3	1250.9	1236.3	1235.0
32.5°	1219.4	1206.2	1211.8	1197.2	1195.9
35°	1158.3	1146.7	1150.4	1137.2	1135.9
37.5°	1094.1	1082.2	1086.4	1075.0	1074.5
40°	1048.6	1040.8	1042.0	1032.7	1030.1
42.5°	1006.3	997.5	998.6	989.3	988.8
45°	941.5	935.0	934.9	925.6	925.6
47.5°	872.7	867.8	866.4	858.7	858.4
50°	825.1	821.2	819.8	813.2	811.9
52.5°	775.4	773.6	769.1	763.5	763.2
55°	698.2	695.6	688.9	684.9	683.6
57.5°	614.3	609.2	601.6	595.9	596.9
60°	554.0	548.9	538.2	535.5	535.5
62.5°	495.9	489.7	478.9	475.3	477.4
65°	412.6	404.8	395.4	392.8	394.0
67.5°	336.9	329.9	319.7	319.7	318.7
70°	288.3	284.4	276.4	276.4	276.4
72.5°	244.9	243.1	237.2	237.2	236.2
75°	187.8	187.8	185.1	183.8	182.5
77.5°	140.7	141.2	139.9	138.5	136.2
80°	111.1	113.7	112.4	111.0	109.8
82.5°	83.6	86.2	85.9	83.6	83.3
85°	43.6	47.5	47.6	47.6	47.6
87.5°	11.6	15.8	16.9	16.9	18.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0

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CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)