

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

Brand: CORELITE

Report Number: P854080

Luminaire Tested: SQ2-PP3-025U-075D-935-UNV-STD-W-4

Issue Date: 7/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P854080
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2308-131-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-PP3-025U-075D-935-UNV-STD-W-4
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

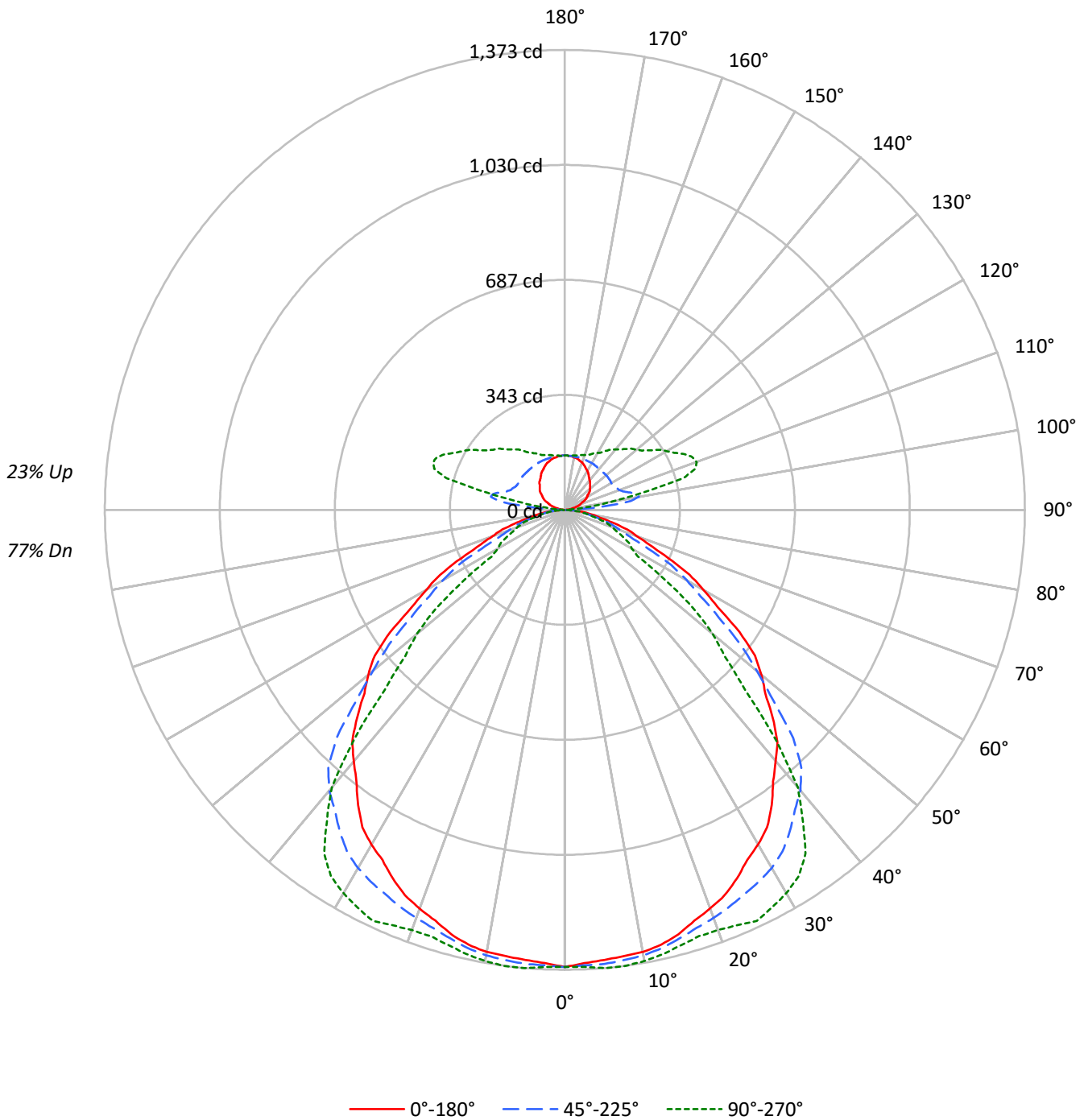
Lumens per Lamp: N/A
Luminaire Lumens: 4442.8 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.1
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

TEST NUMBER: P854080

CATALOG NUMBER: SQ2-PP3-025U-075D-935-UNV-STD-W-4

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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81	77				
1	105	101	97	94	100	96	93	90	88	85	83	80	78	77	73	72	70	67				
2	96	89	83	78	91	85	80	75	78	74	70	71	68	65	65	63	60	57				
3	88	79	71	66	84	76	69	64	69	64	60	64	60	56	59	55	52	49				
4	81	70	62	56	77	67	60	55	62	56	52	57	52	49	53	49	46	43				
5	75	63	55	49	71	61	53	47	56	50	45	52	47	42	48	43	40	38				
6	69	57	49	43	66	55	47	42	51	44	40	47	42	37	43	39	35	33				
7	64	52	43	38	61	50	42	37	46	40	35	43	37	33	40	35	32	29				
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	37	32	28	26				
9	56	43	35	30	53	42	34	30	39	33	28	36	31	27	34	29	26	24				
10	52	40	32	27	50	38	31	27	36	30	26	34	28	25	31	27	23	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22034	22034	22034
5°	21861	22049	22258
10°	21972	22138	22422
15°	21919	22136	22474
20°	21763	22283	22928
25°	21640	22564	24132
30°	21517	23021	24636
35°	21212	23089	24681
40°	20645	23048	22803
45°	20027	22003	17358
50°	19241	18771	14458
55°	17909	15797	10396
60°	15419	13556	7453
65°	13005	10472	7331
70°	10829	8242	7015
75°	9177	7112	6569
80°	7782	6174	5904
85°	6150	5076	3205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22003 cd/sqm



TEST NUMBER: P854080

CATALOG NUMBER: SQ2-PP3-025U-075D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	2.9
10°-20°	376.1	8.5
20°-30°	589.2	13.3
30°-40°	726.8	16.4
40°-50°	684.3	15.4
50°-60°	484.5	10.9
60°-70°	276.1	6.2
70°-80°	136.6	3.1
80°-90°	33.8	0.8
90°-100°	65.6	1.5
100°-110°	203.9	4.6
110°-120°	199.5	4.5
120°-130°	162.9	3.7
130°-140°	133.2	3.0
140°-150°	104.0	2.3
150°-160°	75.0	1.7
160°-170°	45.9	1.0
170°-180°	15.5	0.3
0°-30°	1095.2	24.7
0°-40°	1822.0	41.0
0°-60°	2990.8	67.3
0°-90°	3437.2	77.4
90°-120°	469.0	10.6
90°-150°	869.1	19.6
90°-180°	1006.0	22.6
0°-180°	4442.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1349	1373	1360	1364	1373	128
15°	1311	1330	1324	1337	1344	370
25°	1215	1246	1267	1318	1355	559
35°	1076	1106	1171	1238	1252	671
45°	877	943	964	817	760	675
55°	636	674	561	423	369	561
65°	340	359	274	193	192	342
75°	147	163	114	107	105	159
85°	33	30	27	22	17	39
90°	0	1	3	3	3	2
95°	9	26	120	44	29	10
105°	36	50	201	383	366	38
115°	64	75	163	336	394	63
125°	88	98	161	264	310	79
135°	106	118	160	228	256	82
145°	124	134	160	197	215	78
155°	142	147	161	177	183	66
165°	156	157	162	167	169	44
175°	162	162	162	163	162	15
180°	162	162	162	162	162	



TEST NUMBER: P854080

CATALOG NUMBER: SQ2-PP3-025U-075D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1354.3	1373.5	1361.2	1363.6	1365.8
5°	1348.8	1372.8	1360.4	1363.5	1373.3
7.5°	1343.6	1368.2	1356.0	1361.2	1373.3
10°	1340.2	1361.3	1350.3	1357.7	1367.6
12.5°	1329.8	1349.8	1339.9	1349.6	1358.3
15°	1311.3	1329.6	1324.3	1337.4	1344.5
17.5°	1286.2	1308.5	1308.4	1327.1	1334.4
20°	1266.6	1293.4	1296.9	1320.3	1334.4
22.5°	1245.8	1277.1	1283.0	1318.2	1342.5
25°	1214.7	1245.7	1266.6	1317.9	1354.6
27.5°	1178.3	1209.0	1252.2	1309.7	1338.7
30°	1154.1	1183.7	1234.8	1294.6	1321.4
32.5°	1124.1	1154.8	1209.5	1273.8	1298.3
35°	1076.2	1105.8	1171.4	1238.1	1252.2
37.5°	1021.1	1054.6	1128.1	1165.3	1166.2
40°	979.5	1023.2	1093.5	1100.3	1081.9
42.5°	939.1	995.3	1045.0	1014.6	933.1
45°	877.1	943.4	963.6	816.7	760.2
47.5°	811.0	876.5	844.2	684.9	646.0
50°	766.0	828.1	747.3	612.3	575.6
52.5°	715.2	770.5	660.7	542.6	486.7
55°	636.2	674.3	561.2	422.9	369.3
57.5°	541.0	567.8	479.8	317.4	257.4
60°	477.5	498.7	419.8	260.4	230.8
62.5°	419.8	438.7	357.5	226.2	215.8
65°	340.4	358.8	274.1	193.3	191.9
67.5°	270.9	290.9	210.3	168.7	167.1
70°	229.4	250.5	174.6	151.4	148.6
72.5°	194.7	214.8	148.0	133.0	131.3
75°	147.1	162.7	114.0	106.7	105.3
77.5°	106.8	116.6	84.8	81.0	79.6
80°	83.7	87.9	66.4	64.9	63.5
82.5°	62.9	61.5	50.2	48.7	46.2
85°	33.2	30.4	27.4	21.5	17.3
87.5°	10.4	10.6	5.2	4.1	4.1
90°	0.0	1.0	3.0	3.0	3.0
92.5°	3.2	11.1	38.0	12.5	10.1
95°	8.9	26.4	120.3	44.4	28.8
97.5°	16.3	34.4	199.2	124.0	78.1
100°	21.9	38.4	224.6	210.1	140.1
102.5°	27.4	43.2	219.9	300.1	235.6
105°	35.8	50.4	200.8	383.3	365.8
107.5°	44.1	57.7	182.5	389.7	408.9
110°	49.7	63.3	172.9	380.5	418.4



TEST NUMBER: P854080

CATALOG NUMBER: SQ2-PP3-025U-075D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.3	68.1	168.2	364.1	412.1
115°	63.6	75.3	163.0	336.3	393.6
117.5°	71.8	82.5	160.8	309.7	368.4
120°	76.5	87.2	160.0	294.5	350.9
122.5°	81.3	92.0	160.8	281.7	333.4
125°	88.5	98.2	161.0	264.4	310.1
127.5°	94.2	104.1	161.0	251.6	290.4
130°	97.4	108.1	161.0	244.3	279.3
132.5°	101.4	112.1	160.2	237.9	270.5
135°	106.4	118.0	160.0	228.3	256.4
137.5°	112.1	122.8	160.0	218.7	244.3
140°	115.3	126.0	160.0	212.2	235.6
142.5°	119.3	129.2	160.0	205.8	226.8
145°	124.2	134.0	160.0	197.2	214.7
147.5°	130.2	138.6	161.0	189.2	203.0
150°	134.2	141.0	161.0	185.1	195.8
152.5°	137.4	143.4	161.0	181.1	190.2
155°	142.1	147.0	161.0	177.1	182.9
157.5°	146.9	150.6	161.0	173.4	177.1
160°	150.1	153.0	161.0	171.0	173.9
162.5°	152.5	154.6	161.0	169.4	171.6
165°	156.0	157.0	162.0	167.0	169.0
167.5°	158.2	158.4	161.0	165.6	166.6
170°	159.0	160.0	161.0	164.0	165.0
172.5°	160.6	160.8	161.8	163.2	163.4
175°	162.0	162.0	162.0	163.0	162.0
177.5°	162.0	162.0	162.0	162.0	162.0
180°	162.0	162.0	162.0	162.0	162.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.54	21.66	21.23	22.36	23.18	16.94	18.05	17.62	18.75	19.57
	3H	21.66	22.65	22.36	23.37	24.22	18.06	19.06	18.76	19.77	20.62
	4H	22.01	22.95	22.73	23.67	24.54	18.54	19.47	19.26	20.20	21.06
	6H	22.24	23.10	22.97	23.83	24.72	18.90	19.76	19.63	20.49	21.37
	8H	22.30	23.12	23.04	23.87	24.75	18.99	19.81	19.73	20.56	21.44
	12H	22.32	23.10	23.07	23.85	24.76	19.01	19.79	19.76	20.54	21.45
4H	2H	20.68	21.62	21.41	22.34	23.21	17.68	18.62	18.41	19.34	20.21
	3H	22.01	22.79	22.75	23.55	24.43	18.96	19.73	19.69	20.49	21.38
	4H	22.50	23.20	23.25	23.96	24.88	19.52	20.22	20.27	20.98	21.90
	6H	22.85	23.46	23.62	24.24	25.16	19.98	20.58	20.75	21.37	22.29
	8H	22.95	23.51	23.72	24.29	25.23	20.10	20.67	20.88	21.45	22.38
	12H	23.00	23.50	23.79	24.31	25.25	20.14	20.65	20.94	21.45	22.39
8H	4H	22.53	23.10	23.31	23.88	24.82	19.81	20.38	20.59	21.16	22.10
	6H	22.97	23.44	23.78	24.27	25.20	20.37	20.84	21.17	21.66	22.60
	8H	23.13	23.55	23.95	24.37	25.32	20.55	20.97	21.37	21.79	22.75
	12H	23.23	23.60	24.05	24.41	25.42	20.64	21.01	21.45	21.82	22.83
12H	4H	22.51	23.01	23.30	23.82	24.76	19.83	20.34	20.63	21.15	22.08
	6H	22.96	23.38	23.78	24.20	25.16	20.42	20.84	21.24	21.66	22.61
	8H	23.15	23.51	23.96	24.33	25.34	20.64	21.01	21.46	21.82	22.83