

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:

Luminaire Tested: SQ4-BB-075U-125D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

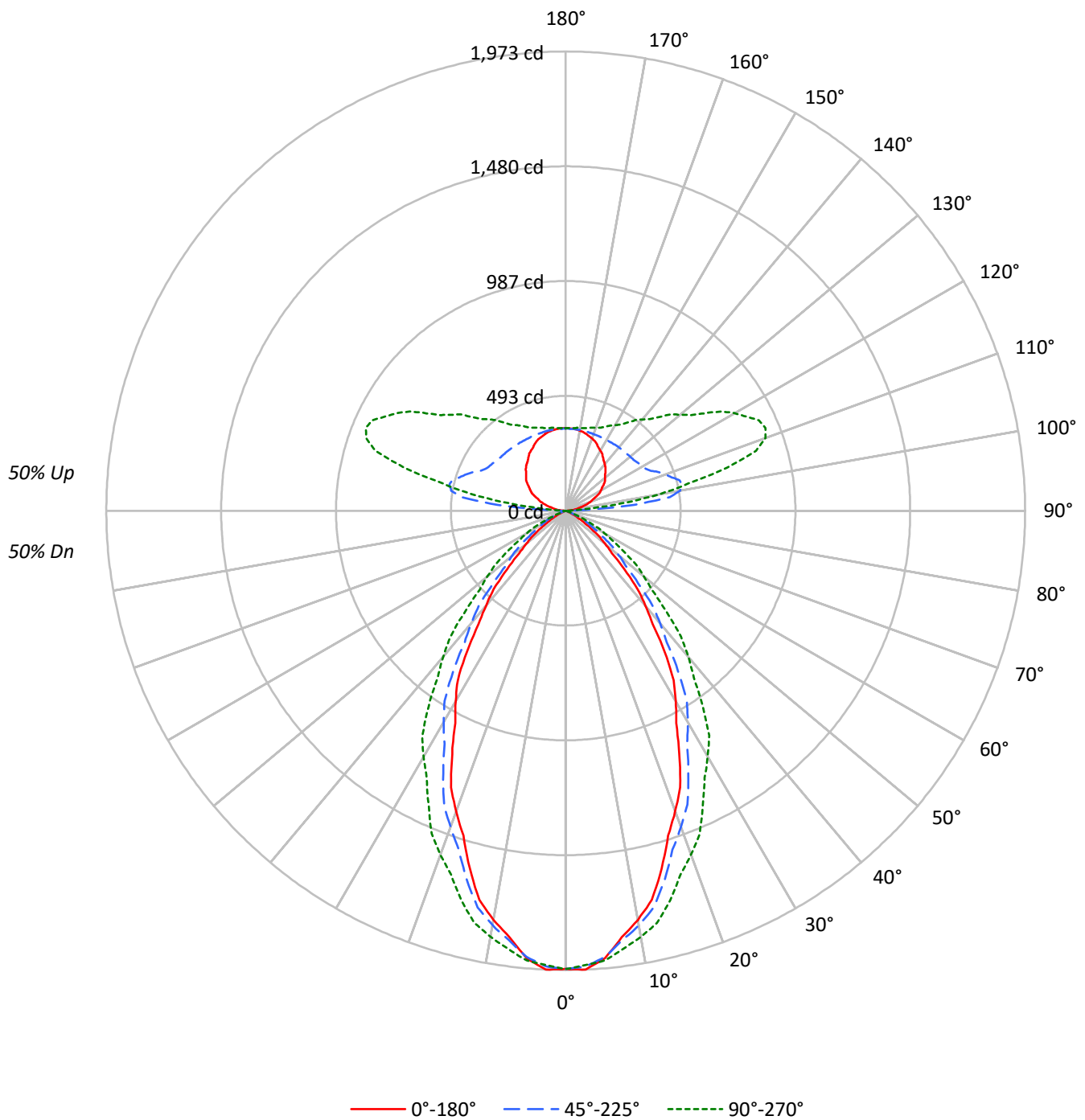
Lumens per Lamp: N/A
Luminaire Lumens: 4654.6 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 62.1
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:

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	100	96	93	90	92	89	86	84	76	74	72	64	63	61	53	52	51
2	92	86	81	77	85	80	76	72	69	66	63	58	56	54	49	47	46
3	85	77	71	66	79	72	67	62	62	58	55	53	51	48	45	43	41
4	79	70	63	58	73	65	59	55	57	52	49	49	46	43	41	39	37
5	73	63	56	51	68	59	53	48	52	47	43	45	41	39	38	36	34
6	68	58	50	45	63	54	48	43	47	43	39	41	38	35	36	33	31
7	64	53	46	41	59	50	43	39	44	39	35	38	35	32	33	30	28
8	60	48	41	37	55	46	39	35	40	35	32	35	32	29	31	28	26
9	56	45	38	33	52	42	36	32	37	33	29	33	29	27	29	26	24
10	52	41	35	30	49	39	33	29	35	30	27	31	27	25	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18164	18164	18164
5°	17871	17827	17959
10°	16721	16945	17417
15°	15201	15684	16557
20°	13494	14195	15439
25°	11751	12682	14185
30°	10065	11171	12998
35°	8346	9482	11564
40°	6412	7583	9853
45°	4636	5741	7928
50°	3158	4279	6288
55°	2052	3095	4887
60°	1177	2179	3532
65°	312	1332	1788
70°	154	410	513
75°	68	36	0
80°	53	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7928 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.9
10°-20°	459.5	9.9
20°-30°	575.2	12.4
30°-40°	531.3	11.4
40°-50°	357.0	7.7
50°-60°	184.4	4.0
60°-70°	57.7	1.2
70°-80°	3.7	0.1
80°-90°	1.0	0.0
90°-100°	166.9	3.6
100°-110°	459.2	9.9
110°-120°	473.9	10.2
120°-130°	379.7	8.2
130°-140°	298.2	6.4
140°-150°	228.6	4.9
150°-160°	164.3	3.5
160°-170°	100.5	2.2
170°-180°	33.9	0.7
0°-30°	1214.3	26.1
0°-40°	1745.6	37.5
0°-60°	2287.0	49.1
0°-90°	2349.4	50.5
90°-120°	1100.0	23.6
90°-150°	2006.5	43.1
90°-180°	2305.0	49.5
0°-180°	4654.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1969	1969	1969	1969	1969	
5°	1930	1910	1925	1932	1939	179
15°	1592	1586	1642	1697	1733	443
25°	1154	1164	1246	1331	1393	529
35°	741	760	842	941	1027	459
45°	355	377	440	526	608	279
55°	128	149	192	247	304	119
65°	14	27	61	74	82	24
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	1	3	5	7	7	2
95°	25	91	295	126	81	26
105°	82	126	506	770	719	87
115°	145	177	406	808	917	143
125°	200	228	368	623	730	179
135°	242	268	358	504	570	186
145°	279	298	352	429	462	175
155°	316	326	350	386	397	145
165°	342	346	352	366	368	96
175°	354	355	352	357	356	34
180°	354	354	354	354	354	

TEST NUMBER:

CATALOG NUMBER: SQ4-BB-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.7	1968.7	1968.7	1968.7	1968.7
2.5°	1973.2	1954.6	1959.5	1959.4	1954.2
5°	1929.6	1910.1	1924.9	1931.7	1939.1
7.5°	1848.1	1832.8	1861.2	1882.5	1898.0
10°	1784.8	1771.8	1808.7	1837.7	1859.1
12.5°	1711.7	1701.6	1746.2	1786.0	1813.4
15°	1591.5	1585.9	1642.0	1697.1	1733.4
17.5°	1462.7	1462.6	1526.6	1595.0	1638.7
20°	1374.4	1377.1	1445.8	1521.2	1572.5
22.5°	1286.0	1292.5	1365.8	1444.5	1503.1
25°	1154.3	1163.7	1245.8	1331.0	1393.4
27.5°	1027.9	1041.5	1127.9	1216.5	1292.4
30°	944.8	960.6	1048.6	1141.8	1220.1
32.5°	863.3	882.1	967.9	1066.4	1146.2
35°	741.0	759.6	841.9	941.0	1026.7
37.5°	614.7	632.9	713.4	810.9	903.5
40°	532.4	552.9	629.6	724.1	818.1
42.5°	457.7	478.2	550.3	643.2	732.0
45°	355.3	376.7	440.0	525.7	607.6
47.5°	270.3	293.6	349.2	426.7	501.4
50°	220.0	243.3	298.1	366.4	438.1
52.5°	179.6	202.2	251.6	316.0	381.7
55°	127.6	149.0	192.4	247.0	303.8
57.5°	88.2	106.6	145.5	191.1	235.6
60°	63.8	81.5	118.1	155.1	191.4
62.5°	42.5	58.7	94.5	122.8	147.2
65°	14.3	27.3	61.0	73.5	81.9
67.5°	7.2	8.7	32.0	33.8	36.6
70°	5.7	5.7	15.2	16.3	19.0
72.5°	4.2	4.2	6.1	7.8	8.4
75°	1.9	1.9	1.0	0.0	0.0
77.5°	1.0	1.0	0.8	0.0	0.0
80°	1.0	1.0	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.6	1.1	1.4	1.4
90°	0.8	3.0	5.3	6.8	6.8
92.5°	10.4	44.4	76.9	29.5	24.2
95°	24.8	91.1	295.1	126.2	80.6
97.5°	40.5	101.0	450.4	347.0	244.8
100°	51.9	107.2	499.2	503.8	411.1
102.5°	62.8	114.5	511.8	625.1	540.0
105°	82.1	126.2	505.9	770.5	719.0
107.5°	100.4	140.8	477.2	841.8	857.1
110°	113.7	150.5	455.5	859.5	912.5

TEST NUMBER:

CATALOG NUMBER: SQ4-BB-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.7	161.4	433.8	848.1	928.8
115°	145.3	177.0	405.8	808.1	917.0
117.5°	164.0	193.1	388.0	751.9	875.1
120°	175.4	203.4	380.2	709.8	837.2
122.5°	185.7	213.6	374.8	673.0	793.8
125°	200.3	228.2	368.2	622.8	729.5
127.5°	214.1	240.8	363.8	580.9	674.6
130°	221.3	248.6	361.4	556.1	641.5
132.5°	229.8	257.0	359.6	534.2	611.3
135°	241.7	268.2	357.6	503.7	569.9
137.5°	252.8	277.4	356.0	479.0	533.6
140°	261.2	284.1	355.4	462.6	512.0
142.5°	268.5	289.5	354.2	448.0	490.3
145°	279.3	298.5	352.3	429.1	462.3
147.5°	290.9	307.4	351.4	412.4	438.9
150°	298.1	312.9	350.8	403.3	423.9
152.5°	304.8	318.3	350.2	395.3	412.4
155°	316.2	326.5	350.1	385.7	396.8
157.5°	324.5	332.9	350.1	377.8	385.5
160°	330.5	337.1	350.1	373.6	379.5
162.5°	335.3	340.8	350.7	369.9	374.6
165°	341.8	346.2	351.6	365.9	368.2
167.5°	346.3	349.7	352.3	362.6	363.2
170°	349.3	351.5	352.3	361.4	361.4
172.5°	351.7	352.8	352.3	359.6	359.0
175°	353.9	354.6	352.3	356.8	356.1
177.5°	354.5	354.5	352.0	355.6	354.5
180°	353.9	353.9	353.9	353.9	353.9

(END OF REPORT)