

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-WB-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-WB-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

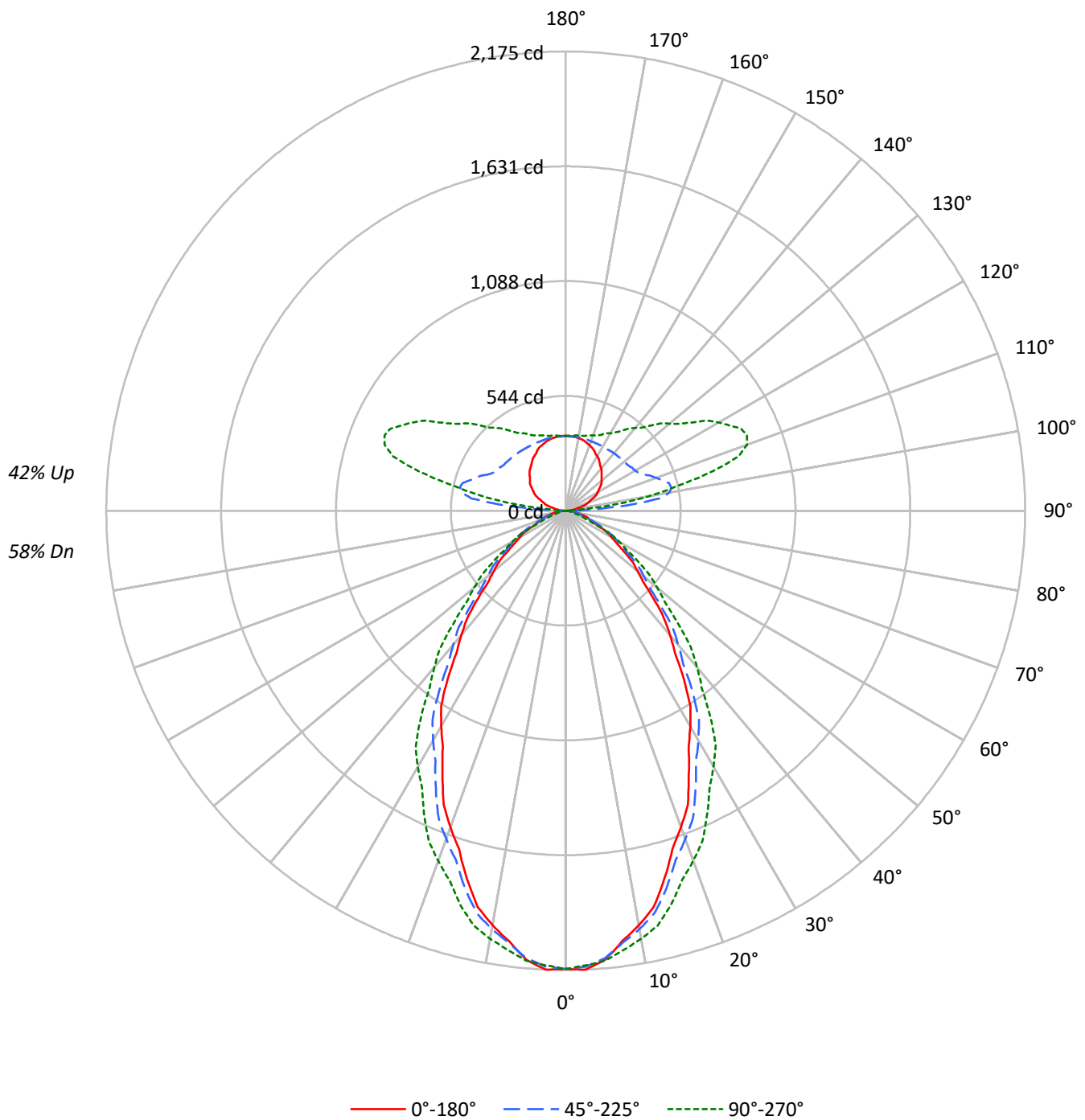
Lumens per Lamp: N/A
Luminaire Lumens: 5468.3 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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

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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20021	20021	20021
5°	19771	19701	19816
10°	18680	18849	19286
15°	17245	17644	18436
20°	15659	16248	17323
25°	14045	14811	16139
30°	12558	13380	14912
35°	10982	11776	13459
40°	9244	9977	11651
45°	7628	8287	9728
50°	6369	6943	8104
55°	5406	5958	6693
60°	4620	5165	5342
65°	3679	4344	3451
70°	3261	3391	2107
75°	3019	2748	1290
80°	2784	2529	1110
85°	2519	2318	910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	3.6
10°-20°	517.7	9.5
20°-30°	670.6	12.3
30°-40°	656.7	12.0
40°-50°	502.7	9.2
50°-60°	334.9	6.1
60°-70°	182.8	3.3
70°-80°	76.2	1.4
80°-90°	22.5	0.4
90°-100°	166.9	3.1
100°-110°	459.2	8.4
110°-120°	473.9	8.7
120°-130°	379.7	6.9
130°-140°	298.2	5.5
140°-150°	228.6	4.2
150°-160°	164.3	3.0
160°-170°	100.5	1.8
170°-180°	33.9	0.6
0°-30°	1387.4	25.4
0°-40°	2044.0	37.4
0°-60°	2881.6	52.7
0°-90°	3163.1	57.8
90°-120°	1100.0	20.1
90°-150°	2006.5	36.7
90°-180°	2305.0	42.2
0°-180°	5468.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2135	2113	2127	2132	2140	199
15°	1805	1799	1847	1898	1930	504
25°	1380	1383	1455	1518	1585	634
35°	975	980	1046	1116	1195	606
45°	585	596	635	683	746	456
55°	336	350	370	384	416	305
65°	168	182	199	174	158	175
75°	85	85	77	53	36	90
85°	24	24	22	14	9	26
90°	1	3	5	7	7	3
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-WB-075U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.0	2170.0	2170.0	2170.0	2170.0
2.5°	2175.4	2156.0	2160.9	2160.8	2154.8
5°	2134.8	2113.4	2127.2	2132.1	2139.6
7.5°	2055.6	2039.4	2064.5	2083.2	2098.2
10°	1993.9	1979.9	2012.0	2039.1	2058.6
12.5°	1922.3	1910.6	1950.3	1986.7	2012.2
15°	1805.4	1798.8	1847.2	1897.5	1930.1
17.5°	1680.2	1677.1	1732.6	1791.3	1833.0
20°	1594.9	1594.0	1654.9	1716.0	1764.4
22.5°	1508.8	1510.9	1574.9	1638.4	1693.6
25°	1379.7	1383.4	1454.9	1518.4	1585.4
27.5°	1260.3	1262.0	1335.9	1402.9	1474.4
30°	1178.8	1183.5	1255.9	1325.2	1399.7
32.5°	1097.3	1102.7	1173.7	1245.3	1321.3
35°	975.0	979.7	1045.5	1115.9	1195.0
37.5°	849.0	855.3	913.7	980.2	1058.1
40°	767.5	776.8	828.4	891.1	967.4
42.5°	689.0	700.5	748.4	807.9	876.8
45°	584.6	595.8	635.1	683.2	745.6
47.5°	494.8	507.6	537.8	579.2	632.4
50°	443.7	455.8	483.7	514.4	564.6
52.5°	398.8	410.9	435.7	459.4	502.2
55°	336.1	350.1	370.4	384.5	416.1
57.5°	284.7	298.1	314.2	320.6	339.7
60°	250.4	265.3	279.9	279.2	289.5
62.5°	219.2	231.9	246.4	236.3	236.9
65°	168.5	182.5	199.0	173.9	158.1
67.5°	136.2	139.1	156.2	121.3	102.5
70°	120.9	120.9	125.7	93.9	78.1
72.5°	106.5	106.5	102.1	76.4	59.8
75°	84.7	84.7	77.1	52.9	36.2
77.5°	65.3	64.6	59.0	39.5	26.3
80°	52.4	52.4	47.6	31.2	20.9
82.5°	40.9	40.9	36.9	24.4	15.6
85°	23.8	23.8	21.9	14.2	8.6
87.5°	8.5	9.0	8.7	5.9	5.2
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:

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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)