

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-025U-125D-927-1D-UNV-STD-W-6

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

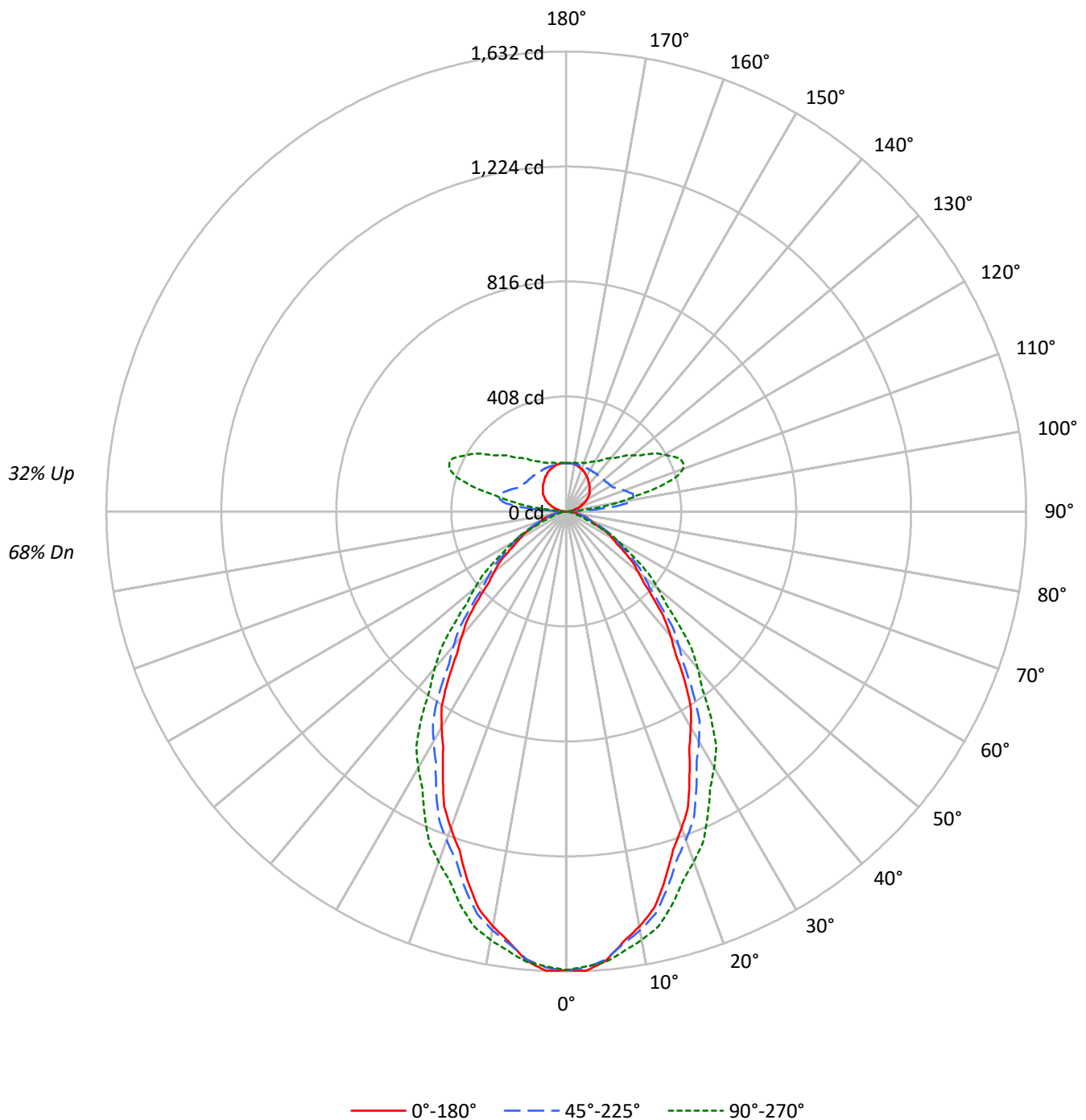
Lumens per Lamp: N/A
Luminaire Lumens: 3488.1 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73
1	103	99	96	93	97	94	91	88	84	82	80	75	73	72	67	65	64
2	95	89	83	79	90	84	79	75	76	72	69	68	65	63	61	59	57
3	88	80	73	68	83	76	70	65	68	64	60	62	58	55	55	53	50
4	82	72	64	59	77	68	62	57	62	57	53	56	52	49	51	47	45
5	76	65	57	52	72	62	55	50	56	51	47	51	47	43	46	43	40
6	70	59	52	46	67	57	50	45	52	46	42	47	43	39	43	39	36
7	66	54	47	41	62	52	45	40	48	42	38	43	39	35	40	36	33
8	61	50	42	37	58	48	41	36	44	38	34	40	36	32	37	33	30
9	58	46	39	34	55	44	38	33	41	35	31	37	33	30	34	31	28
10	54	43	36	31	51	41	35	30	38	32	29	35	30	27	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10010	10010	10010
5°	9886	9850	9908
10°	9340	9425	9643
15°	8622	8822	9218
20°	7830	8124	8662
25°	7023	7406	8069
30°	6279	6690	7456
35°	5491	5888	6729
40°	4622	4989	5826
45°	3814	4143	4864
50°	3185	3472	4052
55°	2703	2979	3347
60°	2310	2583	2671
65°	1840	2173	1725
70°	1631	1696	1054
75°	1511	1374	644
80°	1392	1265	556
85°	1263	1157	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4864 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	4.3
10°-20°	388.3	11.1
20°-30°	503.0	14.4
30°-40°	492.5	14.1
40°-50°	377.0	10.8
50°-60°	251.2	7.2
60°-70°	137.1	3.9
70°-80°	57.1	1.6
80°-90°	17.1	0.5
90°-100°	83.9	2.4
100°-110°	220.5	6.3
110°-120°	228.7	6.6
120°-130°	183.4	5.3
130°-140°	143.9	4.1
140°-150°	110.5	3.2
150°-160°	79.6	2.3
160°-170°	48.7	1.4
170°-180°	16.4	0.5
0°-30°	1040.5	29.8
0°-40°	1533.0	43.9
0°-60°	2161.2	62.0
0°-90°	2372.5	68.0
90°-120°	533.1	15.3
90°-150°	970.9	27.8
90°-180°	1116.0	32.0
0°-180°	3488.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1601	1585	1595	1599	1605	149
15°	1354	1349	1385	1423	1448	378
25°	1035	1038	1091	1139	1189	476
35°	731	735	784	837	896	455
45°	438	447	476	512	559	342
55°	252	263	278	288	312	229
65°	126	137	149	130	118	131
75°	64	64	58	40	27	68
85°	18	18	16	11	6	19
90°	1	3	9	4	4	2
95°	11	43	144	74	51	12
105°	40	60	244	370	345	42
115°	71	86	195	390	445	70
125°	98	110	178	300	354	87
135°	117	129	172	242	275	91
145°	136	144	170	207	223	85
155°	153	158	170	187	192	70
165°	166	168	170	177	179	47
175°	172	172	171	173	173	16
180°	172	172	172	172	172	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.5	1627.5	1627.5	1627.5	1627.5
2.5°	1631.5	1617.0	1620.7	1620.6	1616.1
5°	1601.1	1585.0	1595.4	1599.1	1604.7
7.5°	1541.7	1529.5	1548.4	1562.4	1573.7
10°	1495.4	1484.9	1509.0	1529.3	1544.0
12.5°	1441.7	1432.9	1462.7	1490.0	1509.1
15°	1354.0	1349.1	1385.4	1423.1	1447.6
17.5°	1260.2	1257.8	1299.5	1343.4	1374.7
20°	1196.2	1195.5	1241.2	1287.0	1323.3
22.5°	1131.6	1133.2	1181.2	1228.8	1270.2
25°	1034.8	1037.6	1091.2	1138.8	1189.0
27.5°	945.2	946.5	1001.9	1052.2	1105.8
30°	884.1	887.6	942.0	993.9	1049.8
32.5°	823.0	827.0	880.3	934.0	990.9
35°	731.3	734.8	784.1	836.9	896.2
37.5°	636.7	641.5	685.3	735.2	793.6
40°	575.6	582.6	621.3	668.3	725.6
42.5°	516.8	525.4	561.3	605.9	657.6
45°	438.5	446.9	476.3	512.4	559.2
47.5°	371.1	380.7	403.3	434.4	474.3
50°	332.8	341.9	362.8	385.8	423.5
52.5°	299.1	308.2	326.8	344.5	376.6
55°	252.1	262.6	277.8	288.3	312.1
57.5°	213.5	223.6	235.7	240.4	254.8
60°	187.8	199.0	210.0	209.4	217.1
62.5°	164.4	173.9	184.8	177.3	177.7
65°	126.4	136.9	149.3	130.4	118.5
67.5°	102.1	104.4	117.1	90.9	76.8
70°	90.7	90.7	94.3	70.4	58.6
72.5°	79.8	79.8	76.6	57.3	44.8
75°	63.6	63.6	57.8	39.7	27.1
77.5°	49.0	48.4	44.3	29.6	19.7
80°	39.3	39.3	35.7	23.4	15.7
82.5°	30.7	30.7	27.7	18.3	11.7
85°	17.9	17.9	16.4	10.6	6.4
87.5°	6.5	6.9	7.5	4.3	3.7
90°	1.1	3.3	8.8	4.4	4.4
92.5°	4.6	22.3	49.4	21.9	14.1
95°	11.0	43.4	144.5	74.5	50.8
97.5°	19.2	47.7	216.3	172.0	126.7
100°	25.4	51.3	238.3	241.5	187.6
102.5°	30.7	54.8	244.5	300.8	254.7
105°	39.7	60.2	243.8	370.2	345.3
107.5°	49.0	68.0	229.9	406.2	412.2
110°	55.2	72.4	218.5	415.4	441.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.3	77.7	207.9	409.6	449.3
115°	70.6	85.7	195.3	389.6	444.7
117.5°	79.7	93.5	186.7	362.0	423.0
120°	85.0	97.9	183.2	343.4	402.7
122.5°	90.3	103.2	180.5	324.8	383.3
125°	98.2	110.1	177.6	300.2	354.2
127.5°	104.6	116.7	175.2	280.4	325.9
130°	108.1	121.1	174.3	268.0	310.0
132.5°	111.7	124.6	173.4	257.3	295.0
135°	117.0	128.8	172.1	242.4	274.7
137.5°	122.5	134.1	171.9	231.2	257.7
140°	126.9	137.7	171.0	222.3	247.2
142.5°	130.4	140.3	171.0	216.1	237.4
145°	135.7	144.3	169.9	206.7	222.9
147.5°	141.0	149.4	169.9	198.9	212.3
150°	144.5	152.1	169.9	194.4	205.2
152.5°	148.1	153.9	169.9	190.8	199.0
155°	153.4	157.7	169.9	186.6	192.0
157.5°	157.3	161.4	169.9	182.8	186.7
160°	160.0	163.2	169.9	181.0	183.2
162.5°	162.6	165.0	169.9	179.2	181.4
165°	165.5	167.7	169.9	176.6	178.7
167.5°	168.2	169.2	171.0	175.5	176.3
170°	169.9	171.0	171.0	175.4	175.4
172.5°	170.8	171.0	171.0	174.5	173.7
175°	172.1	172.1	171.0	173.2	173.2
177.5°	172.1	172.1	171.2	173.0	172.1
180°	172.1	172.1	172.1	172.1	172.1

(END OF REPORT)