

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: P521380

Luminaire Tested: SQ4-F-025U-125D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521380
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2101-105-39)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-F-025U-125D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6967.1 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

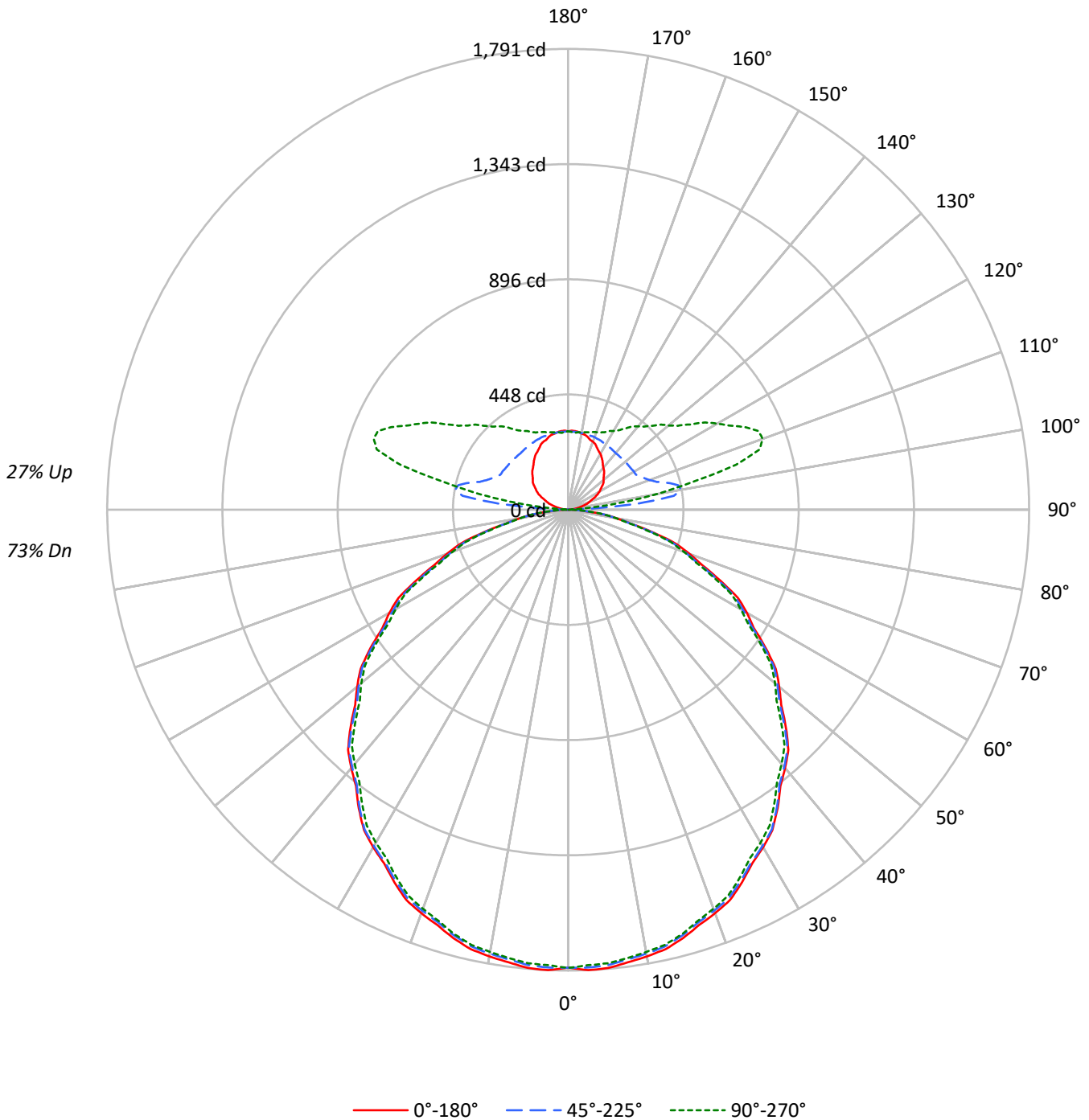
Input Watts (W): 69.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	66	65
2	93	85	79	73	88	81	75	71	73	69	65	66	63	59	59	57	54
3	85	75	67	61	80	71	64	59	65	59	54	58	54	50	52	49	46
4	78	66	58	51	73	63	56	50	57	51	46	52	47	43	47	43	39
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	42	38	34
6	66	53	44	38	62	51	43	37	46	40	35	42	36	32	38	33	30
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	35	30	27
8	57	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16425	16425	16425
5°	16560	16452	16388
10°	16514	16414	16349
15°	16463	16361	16314
20°	16387	16281	16204
25°	16265	16175	16065
30°	16137	16085	15917
35°	15971	15916	15718
40°	15785	15726	15537
45°	15609	15507	15265
50°	15362	15236	15054
55°	15080	14939	14704
60°	14795	14524	14271
65°	14221	13922	13644
70°	13515	13040	12881
75°	12220	11871	11660
80°	10068	10068	9909
85°	7135	8162	8585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	2.4
10°-20°	482.5	6.9
20°-30°	729.8	10.5
30°-40°	879.0	12.6
40°-50°	912.6	13.1
50°-60°	827.3	11.9
60°-70°	631.1	9.1
70°-80°	353.0	5.1
80°-90°	91.8	1.3
90°-100°	138.8	2.0
100°-110°	394.8	5.7
110°-120°	378.2	5.4
120°-130°	299.4	4.3
130°-140°	240.3	3.4
140°-150°	188.1	2.7
150°-160°	137.6	2.0
160°-170°	85.3	1.2
170°-180°	28.9	0.4
0°-30°	1380.8	19.8
0°-40°	2259.9	32.4
0°-60°	3999.8	57.4
0°-90°	5075.8	72.9
90°-120°	911.8	13.1
90°-150°	1639.5	23.5
90°-180°	1891.0	27.1
0°-180°	6967.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1788	1770	1776	1771	1770	170
15°	1724	1706	1713	1711	1708	486
25°	1598	1581	1589	1577	1578	736
35°	1418	1406	1413	1397	1396	886
45°	1196	1190	1188	1174	1170	922
55°	938	936	929	917	914	837
65°	651	648	638	630	625	646
75°	343	337	333	328	327	362
85°	67	74	77	77	81	84
90°	0	0	0	0	0	3
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1791.2	1776.7	1781.1	1777.8	1771.7
5°	1788.1	1770.0	1776.4	1771.4	1769.5
7.5°	1774.4	1757.4	1762.9	1759.9	1757.6
10°	1762.7	1746.5	1752.0	1748.9	1745.1
12.5°	1749.4	1732.4	1738.7	1734.2	1732.6
15°	1723.6	1706.5	1712.9	1710.9	1708.0
17.5°	1692.4	1675.0	1681.6	1677.7	1675.4
20°	1669.0	1650.8	1658.2	1650.4	1650.4
22.5°	1642.4	1624.2	1633.2	1621.5	1623.8
25°	1597.7	1581.4	1588.9	1577.2	1578.1
27.5°	1549.0	1533.8	1543.4	1528.3	1527.7
30°	1514.7	1499.4	1509.8	1493.2	1494.1
32.5°	1476.4	1463.4	1472.3	1456.4	1455.9
35°	1418.0	1406.5	1413.1	1397.4	1395.5
37.5°	1354.3	1345.9	1348.6	1333.8	1333.0
40°	1310.6	1302.9	1305.7	1290.0	1290.0
42.5°	1266.0	1259.1	1261.1	1244.0	1244.0
45°	1196.3	1189.6	1188.5	1173.7	1169.9
47.5°	1121.9	1116.5	1113.1	1099.8	1098.1
50°	1070.3	1066.5	1061.5	1049.8	1048.8
52.5°	1016.4	1014.9	1009.2	996.7	995.7
55°	937.5	935.6	928.7	916.9	914.1
57.5°	854.9	853.0	844.9	833.3	830.5
60°	801.8	796.0	787.1	776.3	773.4
62.5°	743.9	737.5	728.5	718.5	718.0
65°	651.4	647.6	637.7	629.8	625.0
67.5°	564.3	555.7	545.9	539.4	538.5
70°	501.0	492.4	483.4	478.5	477.5
72.5°	437.7	430.6	422.5	417.6	417.4
75°	342.8	337.0	333.0	328.1	327.1
77.5°	248.8	247.3	245.7	240.4	240.4
80°	189.5	189.5	189.5	186.5	186.5
82.5°	136.3	140.1	140.2	138.9	138.9
85°	67.4	74.1	77.1	77.2	81.1
87.5°	18.8	25.6	30.5	31.3	33.6
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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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)