

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

(formerly Eaton)

Brand: CORELITE

Report Number: P523652

Luminaire Tested: **SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523652
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6310.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

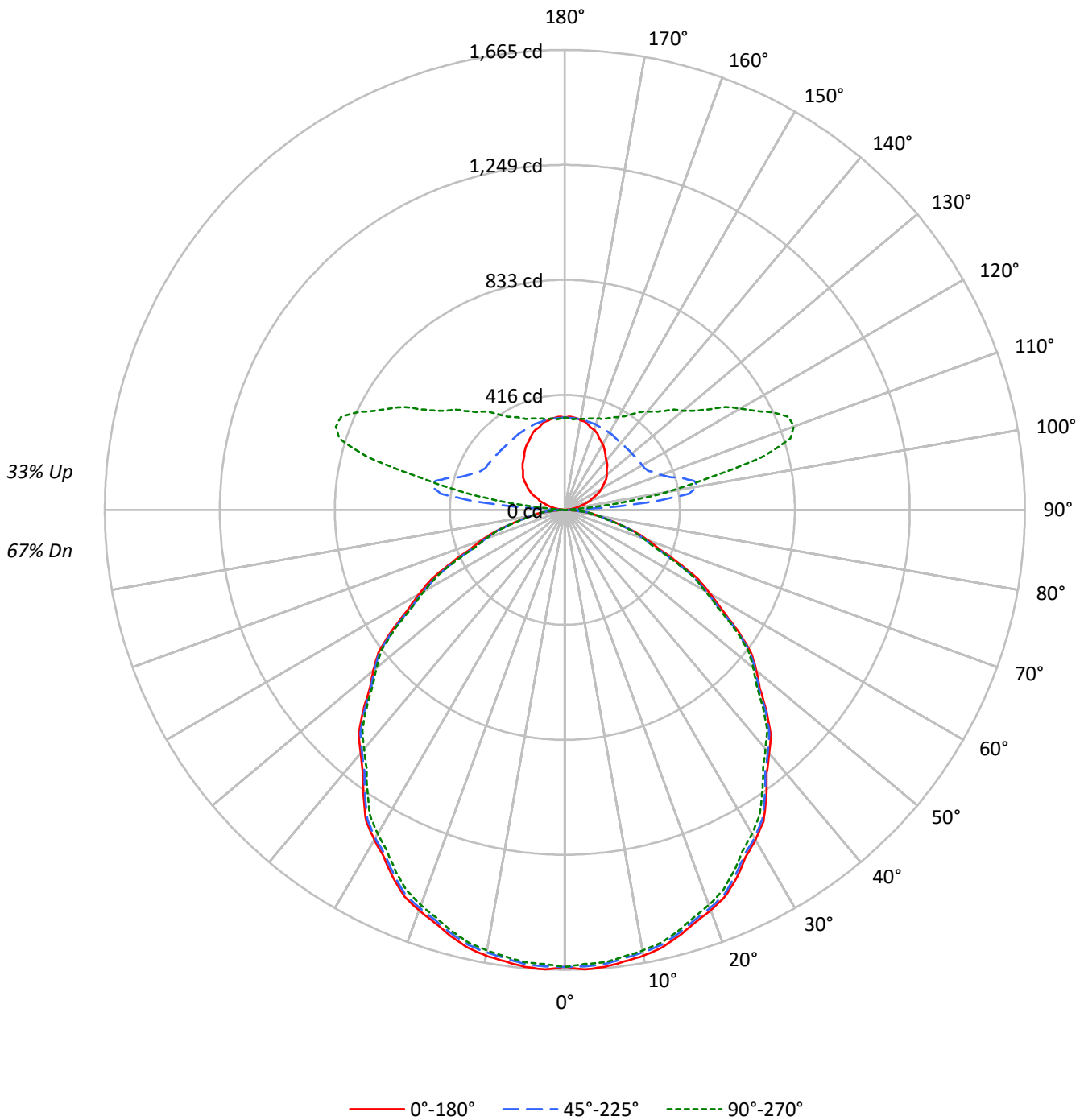
Input Watts (W): 56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	79	74	87	81	75	71	72	68	64	64	61	58	57	54	52	48
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	40	62	51	44	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	26	24
8	57	44	36	31	54	42	35	30	38	32	28	35	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15268	15268	15268
5°	15380	15286	15232
10°	15354	15245	15177
15°	15252	15169	15086
20°	15152	15066	14952
25°	14972	14868	14720
30°	14694	14617	14431
35°	14310	14212	14032
40°	13852	13765	13607
45°	13473	13379	13246
50°	12990	12907	12782
55°	12318	12154	12061
60°	11214	10892	10839
65°	9879	9468	9435
70°	8530	8176	8176
75°	7340	7236	7133
80°	6471	6551	6397
85°	5071	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	2.5
10°-20°	446.8	7.1
20°-30°	669.3	10.6
30°-40°	785.0	12.4
40°-50°	787.4	12.5
50°-60°	671.8	10.6
60°-70°	438.1	6.9
70°-80°	219.8	3.5
80°-90°	60.8	1.0
90°-100°	152.2	2.4
100°-110°	433.0	6.9
110°-120°	414.9	6.6
120°-130°	328.4	5.2
130°-140°	263.6	4.2
140°-150°	206.3	3.3
150°-160°	151.0	2.4
160°-170°	93.5	1.5
170°-180°	31.7	0.5
0°-30°	1272.5	20.2
0°-40°	2057.5	32.6
0°-60°	3516.8	55.7
0°-90°	4235.5	67.1
90°-120°	1000.1	15.8
90°-150°	1798.3	28.5
90°-180°	2075.0	32.9
0°-180°	6310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1661	1645	1650	1645	1645	158
15°	1597	1581	1588	1582	1579	451
25°	1471	1454	1460	1447	1446	676
35°	1270	1258	1262	1247	1246	794
45°	1033	1026	1025	1015	1015	795
55°	766	763	756	751	750	681
65°	452	444	434	431	432	452
75°	206	206	203	202	200	223
85°	48	52	52	52	52	56
90°	0	0	0	0	0	2
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1665.3	1651.7	1654.8	1652.4	1645.6
5°	1660.6	1645.0	1650.5	1644.7	1644.7
7.5°	1649.3	1632.3	1637.7	1631.9	1631.6
10°	1638.9	1621.9	1627.3	1621.5	1620.0
12.5°	1623.8	1606.8	1613.4	1606.4	1606.1
15°	1596.8	1581.2	1588.1	1582.3	1579.4
17.5°	1566.4	1549.4	1557.7	1549.5	1548.4
20°	1543.2	1526.2	1534.5	1522.9	1522.9
22.5°	1515.3	1498.3	1507.8	1492.7	1492.7
25°	1470.7	1453.6	1460.5	1447.4	1446.0
27.5°	1417.6	1400.8	1408.0	1393.2	1392.9
30°	1379.3	1363.7	1372.0	1356.0	1354.6
32.5°	1337.5	1323.0	1329.1	1313.1	1311.7
35°	1270.5	1257.7	1261.8	1247.3	1245.8
37.5°	1200.0	1187.0	1191.6	1179.1	1178.6
40°	1150.1	1141.6	1142.9	1132.7	1129.8
42.5°	1103.7	1094.1	1095.3	1085.1	1084.6
45°	1032.6	1025.6	1025.4	1015.2	1015.2
47.5°	957.2	951.8	950.3	941.8	941.6
50°	905.0	900.8	899.2	891.9	890.5
52.5°	850.5	848.5	843.5	837.4	837.1
55°	765.8	762.9	755.6	751.2	749.8
57.5°	673.8	668.2	659.9	653.6	654.7
60°	607.7	602.0	590.3	587.4	587.4
62.5°	543.9	537.1	525.3	521.3	523.6
65°	452.5	444.0	433.7	430.8	432.2
67.5°	369.5	361.9	350.7	350.7	349.5
70°	316.2	311.9	303.1	303.1	303.1
72.5°	268.6	266.6	260.2	260.2	259.0
75°	205.9	205.9	203.0	201.6	200.1
77.5°	154.3	154.9	153.4	151.9	149.4
80°	121.8	124.7	123.3	121.8	120.4
82.5°	91.7	94.5	94.3	91.7	91.4
85°	47.9	52.1	52.2	52.2	52.2
87.5°	12.8	17.3	18.6	18.6	19.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)