

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: P523639

Luminaire Tested: **SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523639
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-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 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: 5296.5 lumens
Efficiency: N/A
Efficacy: 116.2 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

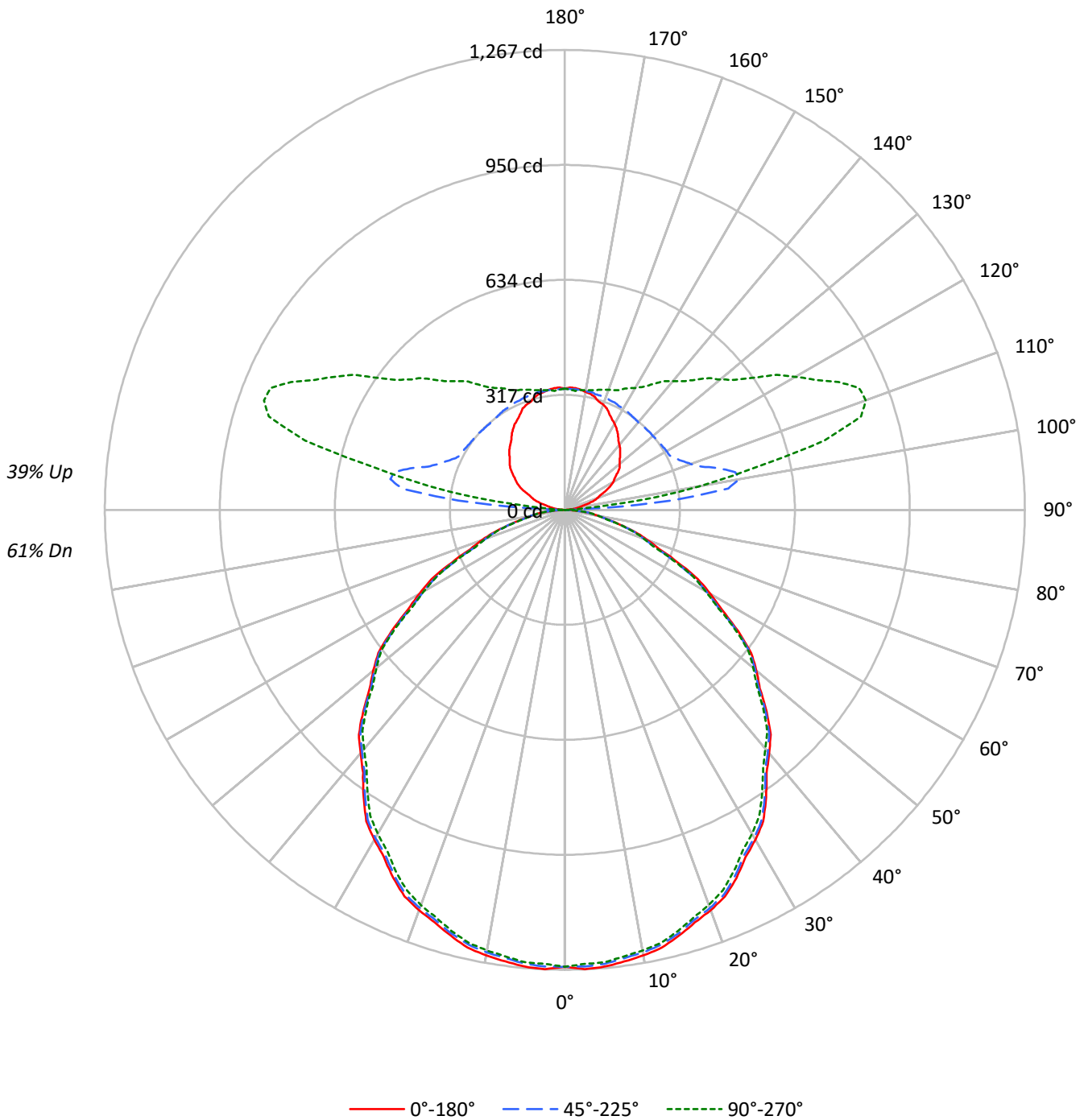
Input Watts (W): 45.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	42	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11614	11614	11614
5°	11700	11628	11587
10°	11680	11597	11546
15°	11602	11539	11476
20°	11526	11461	11375
25°	11388	11310	11198
30°	11178	11119	10978
35°	10886	10811	10674
40°	10537	10471	10352
45°	10249	10177	10077
50°	9882	9818	9723
55°	9370	9246	9175
60°	8531	8285	8245
65°	7514	7202	7178
70°	6488	6221	6221
75°	5586	5508	5429
80°	4925	4984	4867
85°	3853	4203	4203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	2.2
10°-20°	339.9	6.4
20°-30°	509.1	9.6
30°-40°	597.2	11.3
40°-50°	599.0	11.3
50°-60°	511.0	9.6
60°-70°	333.3	6.3
70°-80°	167.2	3.2
80°-90°	46.3	0.9
90°-100°	152.2	2.9
100°-110°	433.0	8.2
110°-120°	414.9	7.8
120°-130°	328.4	6.2
130°-140°	263.6	5.0
140°-150°	206.3	3.9
150°-160°	151.0	2.9
160°-170°	93.5	1.8
170°-180°	31.7	0.6
0°-30°	968.0	18.3
0°-40°	1565.2	29.6
0°-60°	2675.2	50.5
0°-90°	3222.0	60.8
90°-120°	1000.1	18.9
90°-150°	1798.3	34.0
90°-180°	2075.0	39.2
0°-180°	5296.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1263	1251	1256	1251	1251	120
15°	1215	1203	1208	1204	1202	343
25°	1119	1106	1111	1101	1100	514
35°	966	957	960	949	948	604
45°	786	780	780	772	772	605
55°	582	580	575	572	570	518
65°	344	338	330	328	329	344
75°	157	157	154	153	152	170
85°	36	40	40	40	40	43
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°	1258.8	1258.8	1258.8	1258.8	1258.8
2.5°	1266.8	1256.4	1258.8	1257.0	1251.8
5°	1263.3	1251.4	1255.5	1251.1	1251.1
7.5°	1254.7	1241.7	1245.8	1241.4	1241.2
10°	1246.7	1233.8	1237.9	1233.4	1232.4
12.5°	1235.2	1222.3	1227.3	1222.0	1221.8
15°	1214.7	1202.9	1208.1	1203.6	1201.5
17.5°	1191.5	1178.6	1184.9	1178.7	1177.9
20°	1173.9	1161.0	1167.3	1158.5	1158.5
22.5°	1152.7	1139.8	1147.0	1135.5	1135.5
25°	1118.7	1105.8	1111.0	1101.1	1100.0
27.5°	1078.4	1065.6	1071.1	1059.8	1059.6
30°	1049.2	1037.4	1043.7	1031.5	1030.5
32.5°	1017.5	1006.4	1011.1	998.9	997.8
35°	966.5	956.8	959.9	948.8	947.7
37.5°	912.9	902.9	906.5	897.0	896.5
40°	874.9	868.4	869.4	861.6	859.5
42.5°	839.6	832.3	833.2	825.5	825.0
45°	785.5	780.1	780.0	772.3	772.3
47.5°	728.2	724.1	722.9	716.5	716.3
50°	688.5	685.2	684.0	678.5	677.4
52.5°	647.0	645.5	641.7	637.0	636.8
55°	582.5	580.4	574.8	571.5	570.4
57.5°	512.6	508.3	502.0	497.2	498.0
60°	462.3	458.0	449.0	446.8	446.8
62.5°	413.7	408.6	399.6	396.6	398.3
65°	344.2	337.8	329.9	327.7	328.8
67.5°	281.1	275.3	266.8	266.8	265.9
70°	240.5	237.3	230.6	230.6	230.6
72.5°	204.3	202.8	197.9	197.9	197.0
75°	156.7	156.7	154.5	153.3	152.3
77.5°	117.4	117.8	116.7	115.6	113.6
80°	92.7	94.8	93.8	92.7	91.6
82.5°	69.7	71.9	71.7	69.7	69.5
85°	36.4	39.6	39.7	39.7	39.7
87.5°	9.7	13.2	14.1	14.1	15.0
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)