

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: P523699

Luminaire Tested: **SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523699
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-PP3-050U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6137.0 lumens
Efficiency: N/A
Efficacy: 105.4 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

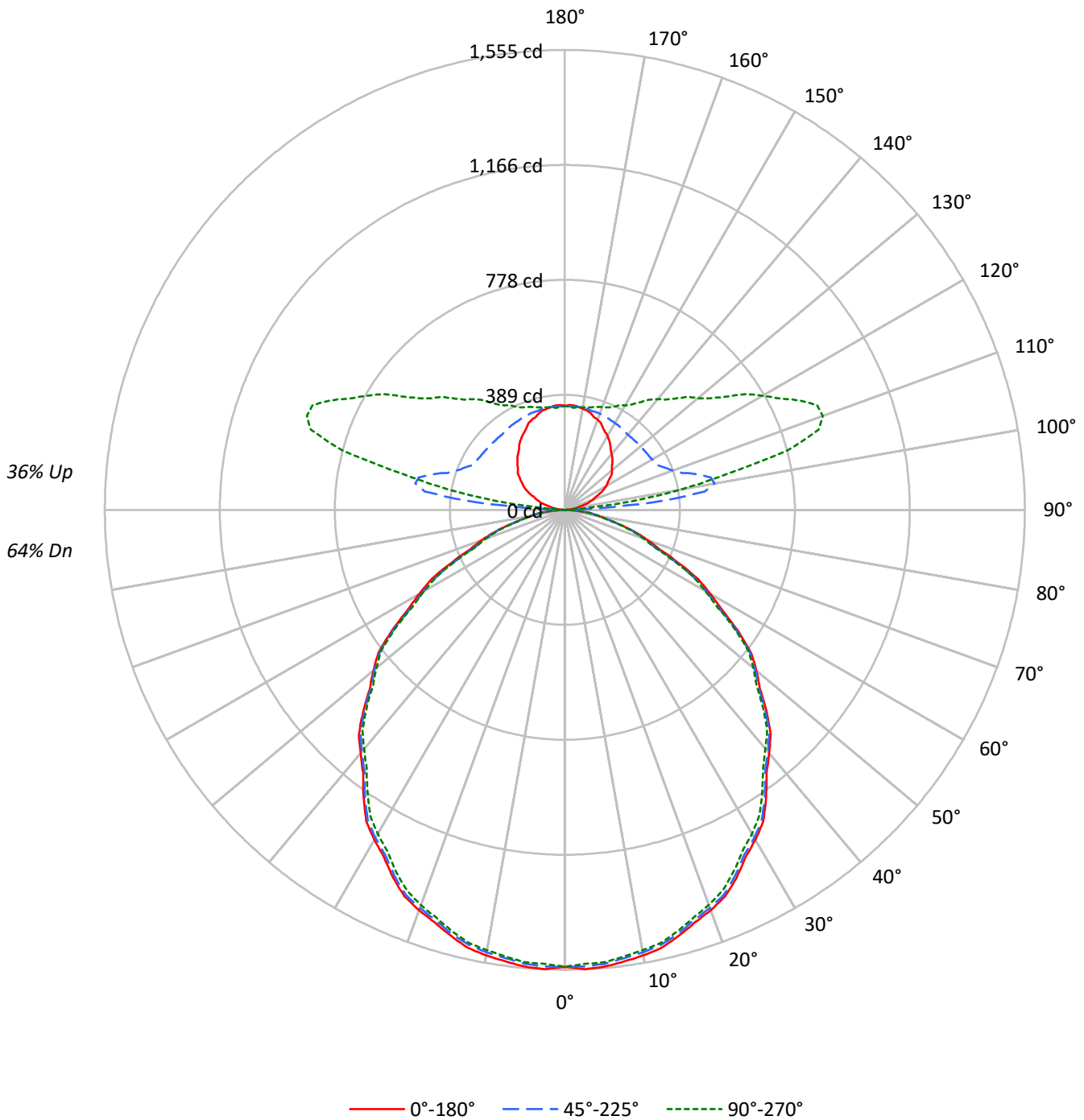
Input Watts (W): 58.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	92	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50	46
3	84	75	67	62	79	71	64	59	63	58	53	55	51	48	49	46	43	39
4	77	66	58	52	72	63	56	50	56	50	46	49	45	41	44	40	37	34
5	71	59	51	45	67	56	49	43	50	44	39	44	40	36	39	35	32	30
6	66	53	45	39	61	51	43	38	45	39	35	40	35	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	25	23
8	56	44	36	31	53	42	34	29	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	49	38	31	26	34	29	24	31	26	23	28	24	21	19
10	49	37	30	25	46	35	28	24	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14254	14254	14254
5°	14359	14271	14221
10°	14335	14233	14170
15°	14240	14162	14084
20°	14145	14066	13959
25°	13977	13880	13743
30°	13719	13646	13473
35°	13359	13268	13100
40°	12932	12851	12704
45°	12579	12491	12367
50°	12127	12050	11933
55°	11499	11348	11260
60°	10468	10169	10119
65°	9224	8839	8809
70°	7963	7634	7634
75°	6855	6759	6662
80°	6041	6115	5972
85°	4732	5155	5155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	2.4
10°-20°	417.1	6.8
20°-30°	624.8	10.2
30°-40°	732.9	11.9
40°-50°	735.2	12.0
50°-60°	627.2	10.2
60°-70°	409.0	6.7
70°-80°	205.2	3.3
80°-90°	56.8	0.9
90°-100°	160.1	2.6
100°-110°	455.6	7.4
110°-120°	436.5	7.1
120°-130°	345.5	5.6
130°-140°	277.3	4.5
140°-150°	217.1	3.5
150°-160°	158.8	2.6
160°-170°	98.4	1.6
170°-180°	33.4	0.5
0°-30°	1188.0	19.4
0°-40°	1920.9	31.3
0°-60°	3283.2	53.5
0°-90°	3954.2	64.4
90°-120°	1052.2	17.1
90°-150°	1892.1	30.8
90°-180°	2183.0	35.6
0°-180°	6137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1550	1536	1541	1536	1536	147
15°	1491	1476	1483	1477	1474	421
25°	1373	1357	1364	1351	1350	631
35°	1186	1174	1178	1164	1163	741
45°	964	958	957	948	948	742
55°	715	712	706	701	700	635
65°	422	414	405	402	404	422
75°	192	192	190	188	187	209
85°	45	49	49	49	49	52
90°	0	0	0	0	0	2
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

TEST NUMBER: P523699

CATALOG NUMBER: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1554.7	1542.0	1545.0	1542.6	1536.3
5°	1550.4	1535.8	1540.9	1535.5	1535.5
7.5°	1539.8	1523.9	1529.0	1523.6	1523.3
10°	1530.1	1514.2	1519.2	1513.8	1512.5
12.5°	1516.0	1500.1	1506.2	1499.7	1499.5
15°	1490.8	1476.2	1482.7	1477.2	1474.5
17.5°	1462.4	1446.5	1454.2	1446.6	1445.6
20°	1440.7	1424.8	1432.6	1421.7	1421.7
22.5°	1414.7	1398.8	1407.7	1393.6	1393.6
25°	1373.0	1357.1	1363.5	1351.3	1350.0
27.5°	1323.4	1307.8	1314.5	1300.7	1300.4
30°	1287.7	1273.1	1280.9	1266.0	1264.7
32.5°	1248.7	1235.2	1240.8	1225.9	1224.6
35°	1186.1	1174.2	1178.0	1164.4	1163.1
37.5°	1120.3	1108.1	1112.5	1100.8	1100.3
40°	1073.7	1065.8	1067.0	1057.4	1054.8
42.5°	1030.4	1021.4	1022.6	1013.1	1012.5
45°	964.1	957.5	957.3	947.8	947.8
47.5°	893.7	888.6	887.2	879.3	879.0
50°	844.9	840.9	839.5	832.7	831.4
52.5°	794.0	792.2	787.5	781.8	781.5
55°	714.9	712.3	705.5	701.4	700.0
57.5°	629.1	623.8	616.1	610.2	611.2
60°	567.3	562.0	551.1	548.4	548.4
62.5°	507.8	501.4	490.4	486.7	488.8
65°	422.5	414.5	404.9	402.2	403.5
67.5°	345.0	337.9	327.4	327.4	326.3
70°	295.2	291.2	283.0	283.0	283.0
72.5°	250.8	248.9	242.9	242.9	241.8
75°	192.3	192.3	189.6	188.2	186.9
77.5°	144.1	144.6	143.3	141.8	139.5
80°	113.7	116.4	115.1	113.7	112.4
82.5°	85.6	88.2	88.0	85.6	85.3
85°	44.7	48.7	48.7	48.7	48.7
87.5°	11.9	16.2	17.3	17.4	18.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

TEST NUMBER: P523699

CATALOG NUMBER: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)