

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: P561480

Luminaire Tested: **SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561480
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 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: 5219.5 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

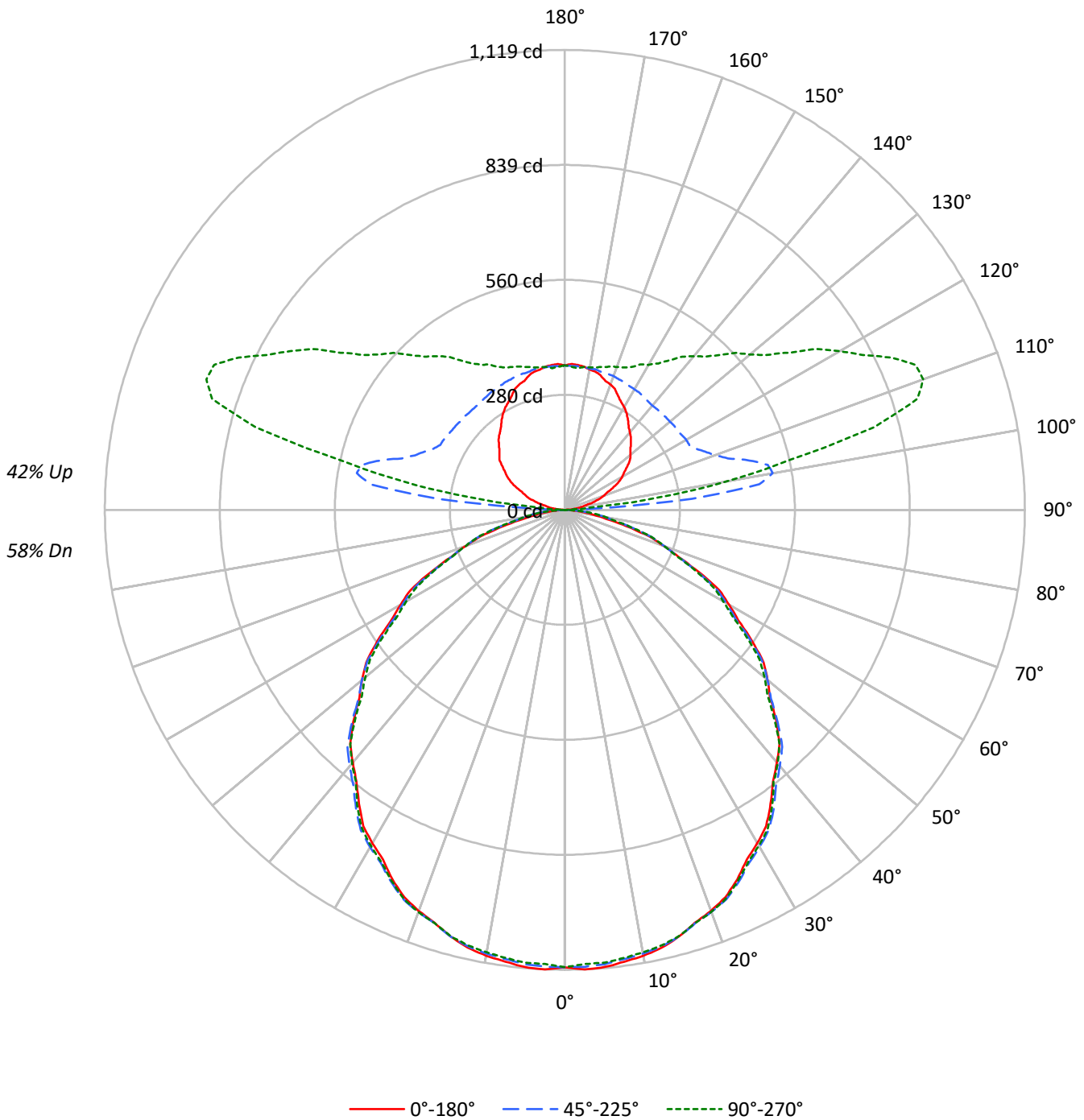
Input Watts (W): 47.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	100	95	91	88	93	89	86	83	77	75	72	66	65	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	47	45	41
3	83	73	66	60	77	69	62	57	60	55	50	52	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	47	43	46	42	38	39	36	33	30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10266	10266	10266
5°	10343	10276	10239
10°	10319	10270	10241
15°	10264	10264	10254
20°	10196	10227	10227
25°	10100	10174	10142
30°	9977	10097	10054
35°	9828	9979	9909
40°	9666	9803	9704
45°	9491	9558	9410
50°	9242	9242	9094
55°	8948	8832	8701
60°	8518	8346	8213
65°	7872	7715	7647
70°	6892	6949	6919
75°	5547	6135	6171
80°	3942	5202	5255
85°	2403	4361	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	2.0
10°-20°	302.2	5.8
20°-30°	457.6	8.8
30°-40°	548.6	10.5
40°-50°	559.4	10.7
50°-60°	488.3	9.4
60°-70°	349.6	6.7
70°-80°	180.1	3.4
80°-90°	45.5	0.9
90°-100°	160.1	3.1
100°-110°	455.6	8.7
110°-120°	436.5	8.4
120°-130°	345.5	6.6
130°-140°	277.3	5.3
140°-150°	217.1	4.2
150°-160°	158.8	3.0
160°-170°	98.4	1.9
170°-180°	33.4	0.6
0°-30°	865.1	16.6
0°-40°	1413.8	27.1
0°-60°	2461.5	47.2
0°-90°	3036.7	58.2
90°-120°	1052.2	20.2
90°-150°	1892.1	36.3
90°-180°	2183.0	41.8
0°-180°	5219.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1117	1106	1110	1106	1106	106
15°	1075	1066	1075	1074	1074	303
25°	992	985	999	996	996	457
35°	873	871	886	880	880	546
45°	727	725	732	723	721	560
55°	556	549	549	541	541	496
65°	361	352	353	350	350	357
75°	156	163	172	173	173	168
85°	23	35	41	42	41	31
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	

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CATALOG NUMBER: SQ4-PC3-050U-075D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.7	1112.7	1112.7	1112.7	1112.7
2.5°	1119.3	1109.6	1112.7	1110.1	1106.1
5°	1116.8	1105.7	1109.6	1106.5	1105.5
7.5°	1108.8	1097.7	1102.8	1100.7	1099.7
10°	1101.4	1090.3	1096.2	1094.1	1093.1
12.5°	1091.5	1081.2	1088.0	1085.9	1085.7
15°	1074.6	1065.5	1074.6	1074.5	1073.5
17.5°	1053.3	1045.1	1054.8	1055.4	1054.8
20°	1038.5	1029.4	1041.6	1040.6	1041.6
22.5°	1020.4	1012.9	1025.9	1023.3	1024.3
25°	992.1	985.1	999.4	996.3	996.3
27.5°	958.8	953.7	969.3	966.0	966.0
30°	936.5	931.5	947.8	943.7	943.7
32.5°	911.8	908.4	923.9	919.0	919.0
35°	872.6	870.6	886.0	879.8	879.8
37.5°	832.2	830.4	844.4	836.9	834.5
40°	802.6	801.6	813.9	805.7	805.7
42.5°	772.9	771.9	782.6	772.7	772.7
45°	727.4	725.4	732.5	723.2	721.2
47.5°	677.7	675.7	680.2	670.1	669.1
50°	643.9	641.9	643.9	634.6	633.6
52.5°	609.3	605.7	606.0	596.7	596.5
55°	556.3	549.3	549.1	540.9	540.9
57.5°	500.3	491.0	491.8	484.8	483.8
60°	461.6	451.5	452.3	446.1	445.1
62.5°	423.6	412.0	414.4	407.4	407.2
65°	360.6	352.5	353.4	350.3	350.3
67.5°	300.0	292.6	298.0	295.5	295.3
70°	255.5	250.5	257.6	257.5	256.5
72.5°	214.3	214.1	222.9	223.0	223.6
75°	155.6	162.6	172.1	173.1	173.1
77.5°	103.9	116.3	126.7	127.1	126.9
80°	74.2	88.3	97.9	99.9	98.9
82.5°	50.3	65.2	73.1	75.2	74.2
85°	22.7	34.8	41.2	42.2	41.2
87.5°	6.6	13.8	16.5	16.4	14.8
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

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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)