

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: P561470

Luminaire Tested: **SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561470
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-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4404.8 lumens
Efficiency: N/A
Efficacy: 120.7 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

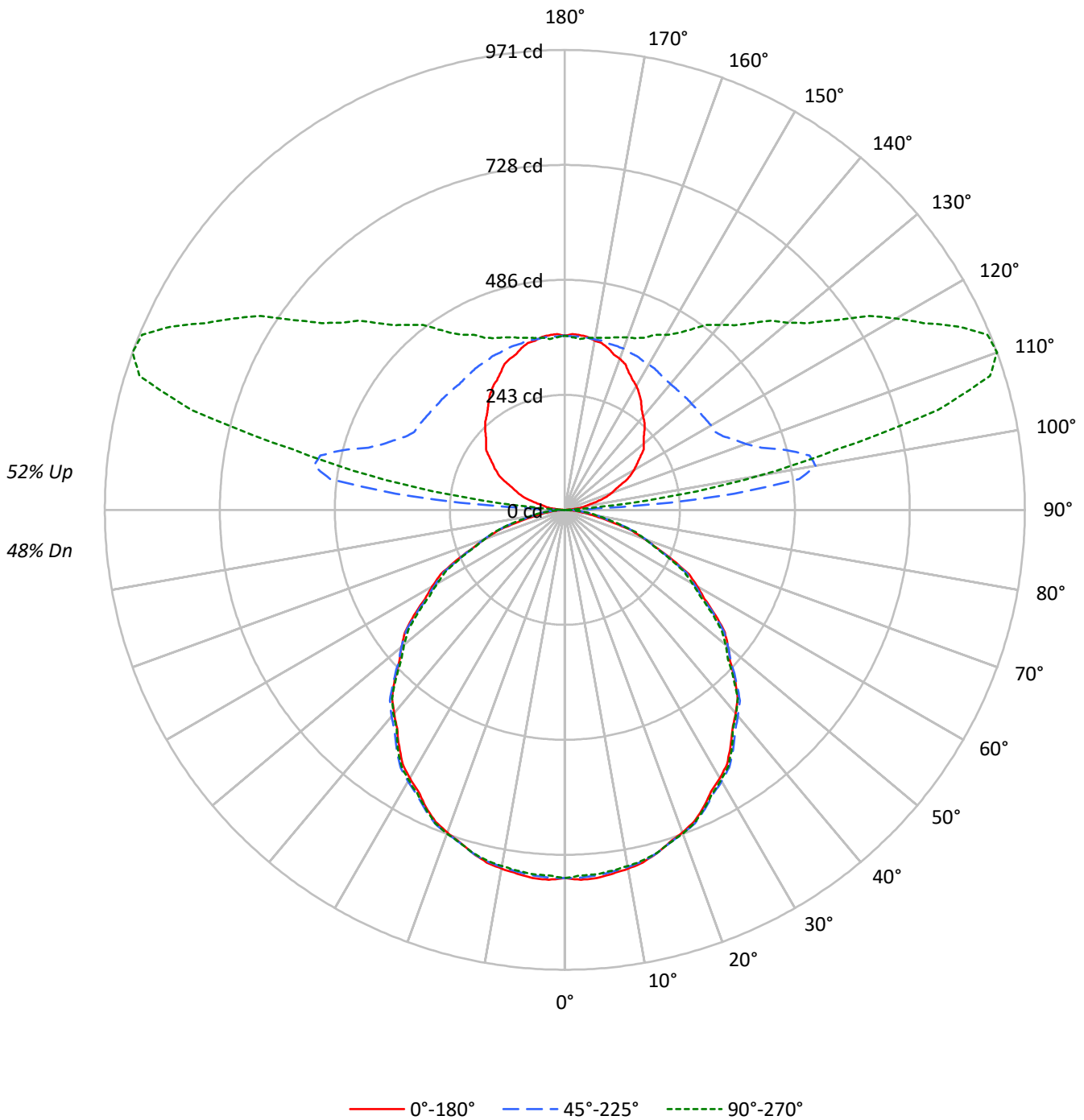
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7172	7172	7172
5°	7225	7179	7152
10°	7207	7173	7154
15°	7169	7169	7163
20°	7122	7144	7144
25°	7056	7107	7084
30°	6970	7054	7023
35°	6866	6971	6922
40°	6752	6848	6778
45°	6630	6677	6573
50°	6456	6456	6353
55°	6251	6170	6077
60°	5949	5829	5737
65°	5499	5390	5342
70°	4815	4853	4834
75°	3875	4285	4310
80°	2752	3634	3671
85°	1673	3049	3049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.7
10°-20°	211.1	4.8
20°-30°	319.7	7.3
30°-40°	383.2	8.7
40°-50°	390.8	8.9
50°-60°	341.1	7.7
60°-70°	244.2	5.5
70°-80°	125.8	2.9
80°-90°	31.8	0.7
90°-100°	167.5	3.8
100°-110°	476.6	10.8
110°-120°	456.7	10.4
120°-130°	361.4	8.2
130°-140°	290.1	6.6
140°-150°	227.1	5.2
150°-160°	166.2	3.8
160°-170°	102.9	2.3
170°-180°	34.9	0.8
0°-30°	604.3	13.7
0°-40°	987.6	22.4
0°-60°	1719.5	39.0
0°-90°	2121.3	48.2
90°-120°	1100.8	25.0
90°-150°	1979.5	44.9
90°-180°	2283.0	51.8
0°-180°	4404.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	780	772	775	773	772	74
15°	751	744	751	751	750	212
25°	693	688	698	696	696	319
35°	610	608	619	615	615	381
45°	508	507	512	505	504	391
55°	389	384	384	378	378	346
65°	252	246	247	245	245	249
75°	109	114	120	121	121	117
85°	16	24	29	30	29	21
90°	0	0	0	0	0	1
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

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CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.3	777.3	777.3	777.3	777.3
2.5°	781.9	775.1	777.3	775.5	772.7
5°	780.1	772.4	775.1	772.9	772.2
7.5°	774.5	766.8	770.4	768.9	768.2
10°	769.3	761.6	765.7	764.3	763.6
12.5°	762.4	755.3	760.0	758.5	758.4
15°	750.6	744.3	750.6	750.6	749.9
17.5°	735.8	730.0	736.8	737.2	736.8
20°	725.4	719.1	727.6	726.9	727.6
22.5°	712.8	707.6	716.7	714.8	715.5
25°	693.1	688.1	698.1	695.9	695.9
27.5°	669.7	666.2	677.1	674.8	674.8
30°	654.2	650.7	662.1	659.2	659.2
32.5°	636.9	634.5	645.4	642.0	642.0
35°	609.6	608.2	618.9	614.6	614.6
37.5°	581.4	580.1	589.9	584.6	582.9
40°	560.6	559.9	568.6	562.8	562.8
42.5°	539.9	539.2	546.7	539.8	539.8
45°	508.1	506.7	511.7	505.2	503.8
47.5°	473.4	472.0	475.1	468.1	467.4
50°	449.8	448.4	449.8	443.3	442.6
52.5°	425.6	423.1	423.3	416.8	416.7
55°	388.6	383.7	383.6	377.8	377.8
57.5°	349.5	343.0	343.6	338.7	338.0
60°	322.4	315.4	315.9	311.6	310.9
62.5°	295.9	287.8	289.5	284.6	284.4
65°	251.9	246.3	246.9	244.7	244.7
67.5°	209.6	204.4	208.1	206.4	206.3
70°	178.5	175.0	179.9	179.9	179.2
72.5°	149.7	149.6	155.7	155.8	156.2
75°	108.7	113.6	120.2	120.9	120.9
77.5°	72.5	81.3	88.5	88.8	88.7
80°	51.8	61.7	68.4	69.8	69.1
82.5°	35.1	45.5	51.1	52.5	51.8
85°	15.8	24.3	28.8	29.5	28.8
87.5°	4.6	9.7	11.5	11.5	10.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)