

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: P561522

Luminaire Tested: **SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561522
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-PC3-075U-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 750 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: 5539.5 lumens
Efficiency: N/A
Efficacy: 125.0 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: Semi-Indirect

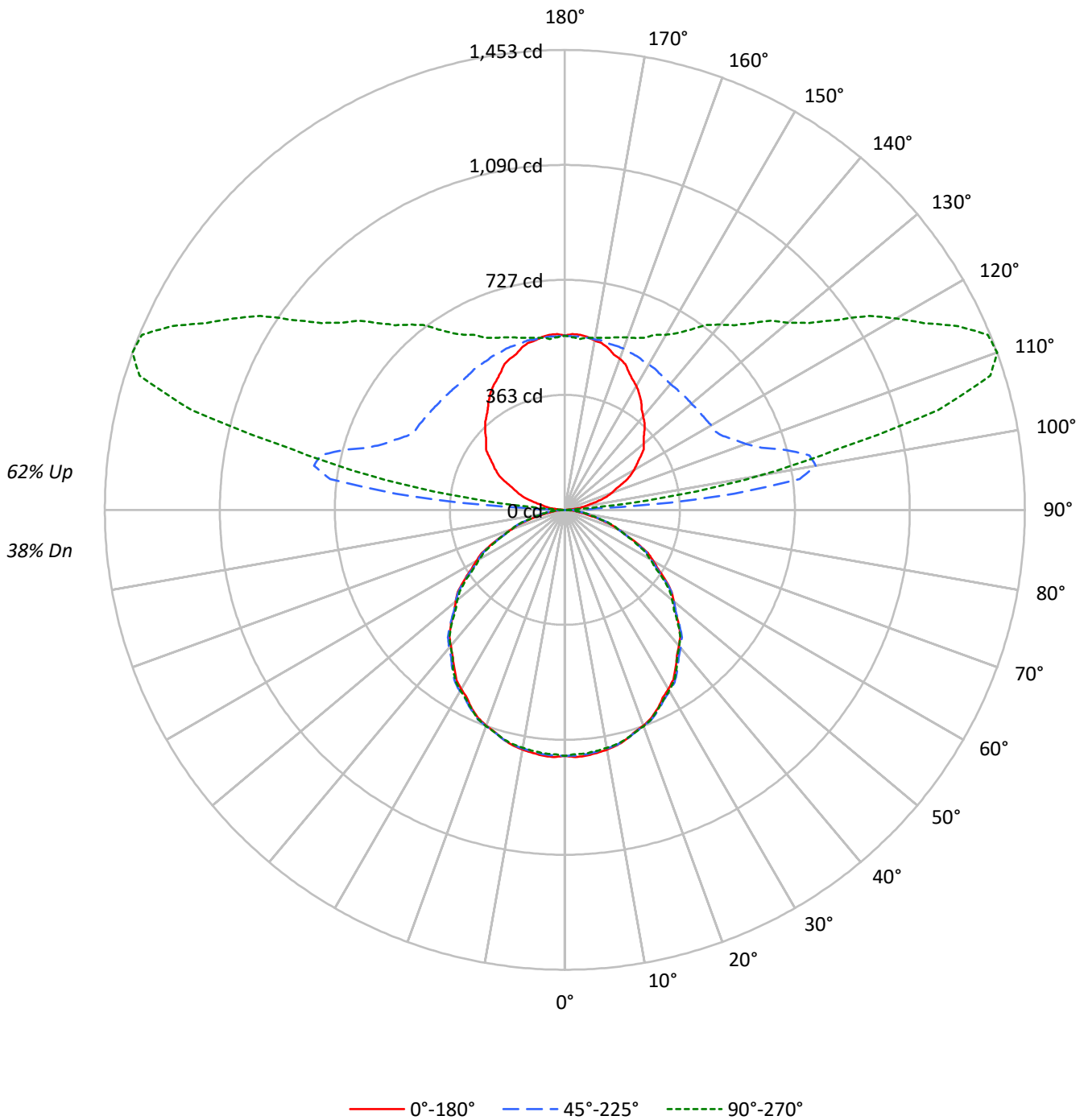
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

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	1.3
10°-20°	211.1	3.8
20°-30°	319.7	5.8
30°-40°	383.2	6.9
40°-50°	390.8	7.1
50°-60°	341.1	6.2
60°-70°	244.2	4.4
70°-80°	125.8	2.3
80°-90°	31.8	0.6
90°-100°	250.8	4.5
100°-110°	713.5	12.9
110°-120°	683.6	12.3
120°-130°	541.0	9.8
130°-140°	434.3	7.8
140°-150°	340.0	6.1
150°-160°	248.8	4.5
160°-170°	154.1	2.8
170°-180°	52.3	0.9
0°-30°	604.3	10.9
0°-40°	987.6	17.8
0°-60°	1719.5	31.0
0°-90°	2121.3	38.3
90°-120°	1647.8	29.7
90°-150°	2963.1	53.5
90°-180°	3418.0	61.7
0°-180°	5539.5	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	2
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	



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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°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)