

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: P561520

Luminaire Tested: **SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561520
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5391.9 lumens
Efficiency: N/A
Efficacy: 121.4 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: Semi-Indirect

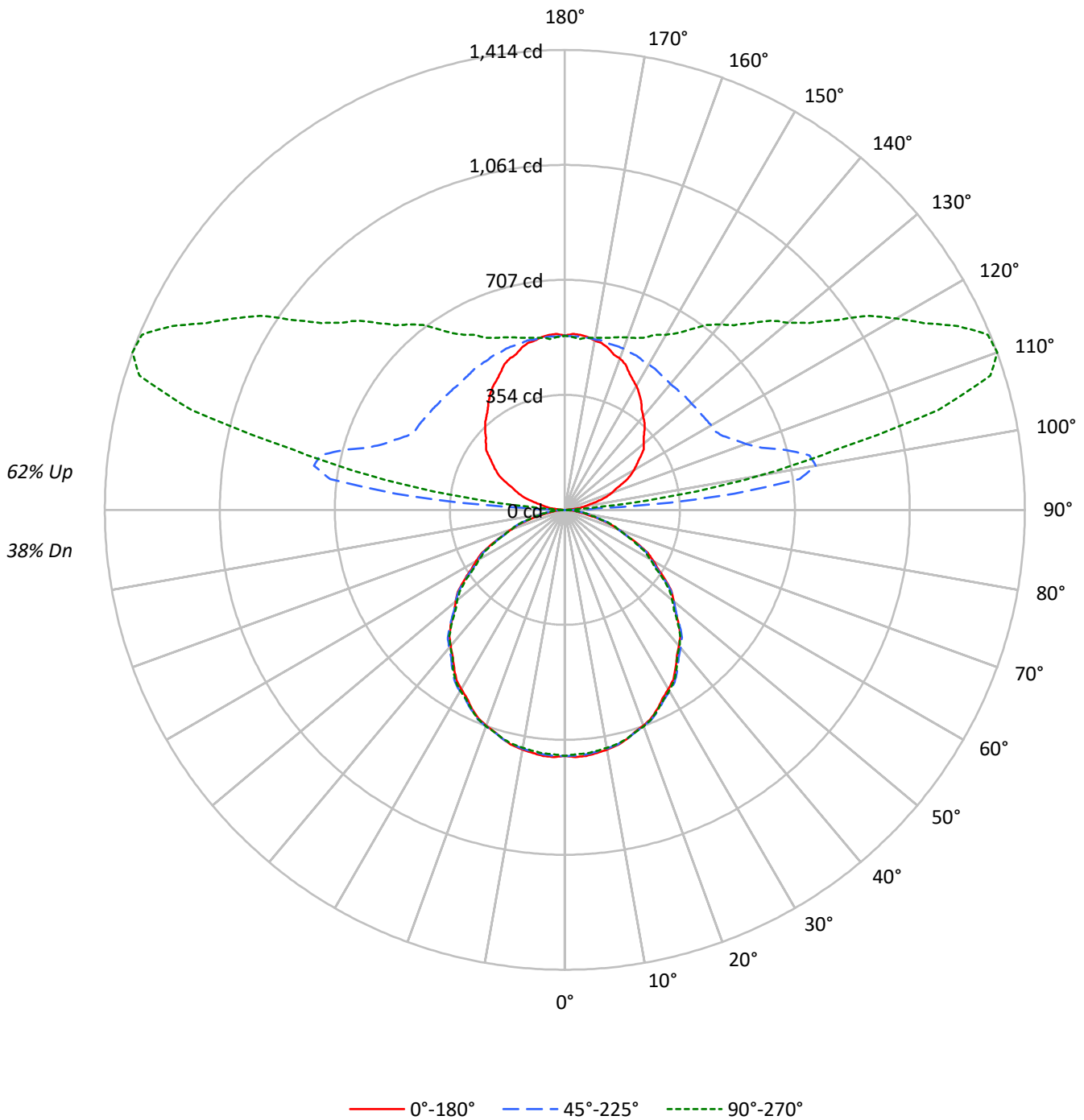
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6981	6981	6981
5°	7033	6988	6962
10°	7015	6982	6963
15°	6978	6978	6972
20°	6933	6953	6953
25°	6867	6917	6896
30°	6784	6866	6836
35°	6682	6785	6738
40°	6572	6665	6598
45°	6453	6499	6399
50°	6284	6284	6183
55°	6085	6006	5916
60°	5790	5674	5584
65°	5353	5246	5200
70°	4686	4723	4705
75°	3771	4171	4196
80°	2678	3533	3570
85°	1630	2964	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.3
10°-20°	205.5	3.8
20°-30°	311.2	5.8
30°-40°	373.0	6.9
40°-50°	380.4	7.1
50°-60°	332.0	6.2
60°-70°	237.7	4.4
70°-80°	122.4	2.3
80°-90°	30.9	0.6
90°-100°	244.1	4.5
100°-110°	694.5	12.9
110°-120°	665.4	12.3
120°-130°	526.6	9.8
130°-140°	422.7	7.8
140°-150°	330.9	6.1
150°-160°	242.1	4.5
160°-170°	150.0	2.8
170°-180°	50.9	0.9
0°-30°	588.2	10.9
0°-40°	961.3	17.8
0°-60°	1673.7	31.0
0°-90°	2064.8	38.3
90°-120°	1603.9	29.7
90°-150°	2884.1	53.5
90°-180°	3327.0	61.7
0°-180°	5391.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	759	752	754	752	752	72
15°	731	724	731	731	730	206
25°	675	670	680	677	677	310
35°	593	592	602	598	598	371
45°	495	493	498	492	490	381
55°	378	374	373	368	368	337
65°	245	240	240	238	238	242
75°	106	111	117	118	118	114
85°	15	24	28	29	28	21
90°	0	0	0	0	0	2
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.6	756.6	756.6	756.6	756.6
2.5°	761.0	754.5	756.6	754.8	752.1
5°	759.4	751.8	754.5	752.3	751.7
7.5°	753.9	746.4	749.8	748.4	747.7
10°	748.8	741.3	745.3	743.9	743.2
12.5°	742.1	735.1	739.7	738.3	738.2
15°	730.6	724.5	730.6	730.6	729.9
17.5°	716.2	710.6	717.2	717.6	717.2
20°	706.1	700.0	708.2	707.5	708.2
22.5°	693.8	688.7	697.6	695.8	696.5
25°	674.6	669.8	679.5	677.4	677.4
27.5°	651.9	648.5	659.0	656.8	656.8
30°	636.8	633.3	644.5	641.7	641.7
32.5°	620.0	617.6	628.2	624.9	624.9
35°	593.3	592.0	602.4	598.2	598.2
37.5°	565.9	564.6	574.1	569.1	567.4
40°	545.7	545.0	553.4	547.8	547.8
42.5°	525.5	524.8	532.1	525.4	525.4
45°	494.6	493.2	498.1	491.7	490.4
47.5°	460.8	459.4	462.5	455.6	454.9
50°	437.8	436.5	437.8	431.5	430.8
52.5°	414.3	411.8	412.0	405.7	405.6
55°	378.3	373.5	373.4	367.8	367.8
57.5°	340.2	333.9	334.4	329.6	329.0
60°	313.8	307.0	307.5	303.3	302.6
62.5°	288.1	280.1	281.7	277.0	276.8
65°	245.2	239.7	240.3	238.2	238.2
67.5°	204.0	198.9	202.6	200.9	200.8
70°	173.7	170.3	175.1	175.1	174.4
72.5°	145.7	145.6	151.6	151.6	152.0
75°	105.8	110.6	117.0	117.7	117.7
77.5°	70.6	79.1	86.2	86.4	86.3
80°	50.4	60.0	66.5	67.9	67.2
82.5°	34.2	44.3	49.7	51.1	50.4
85°	15.4	23.6	28.0	28.7	28.0
87.5°	4.5	9.4	11.2	11.2	10.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)