

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: P561622

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561622
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-PC3-100U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6250.2 lumens
Efficiency: N/A
Efficacy: 117.7 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: Semi-Indirect

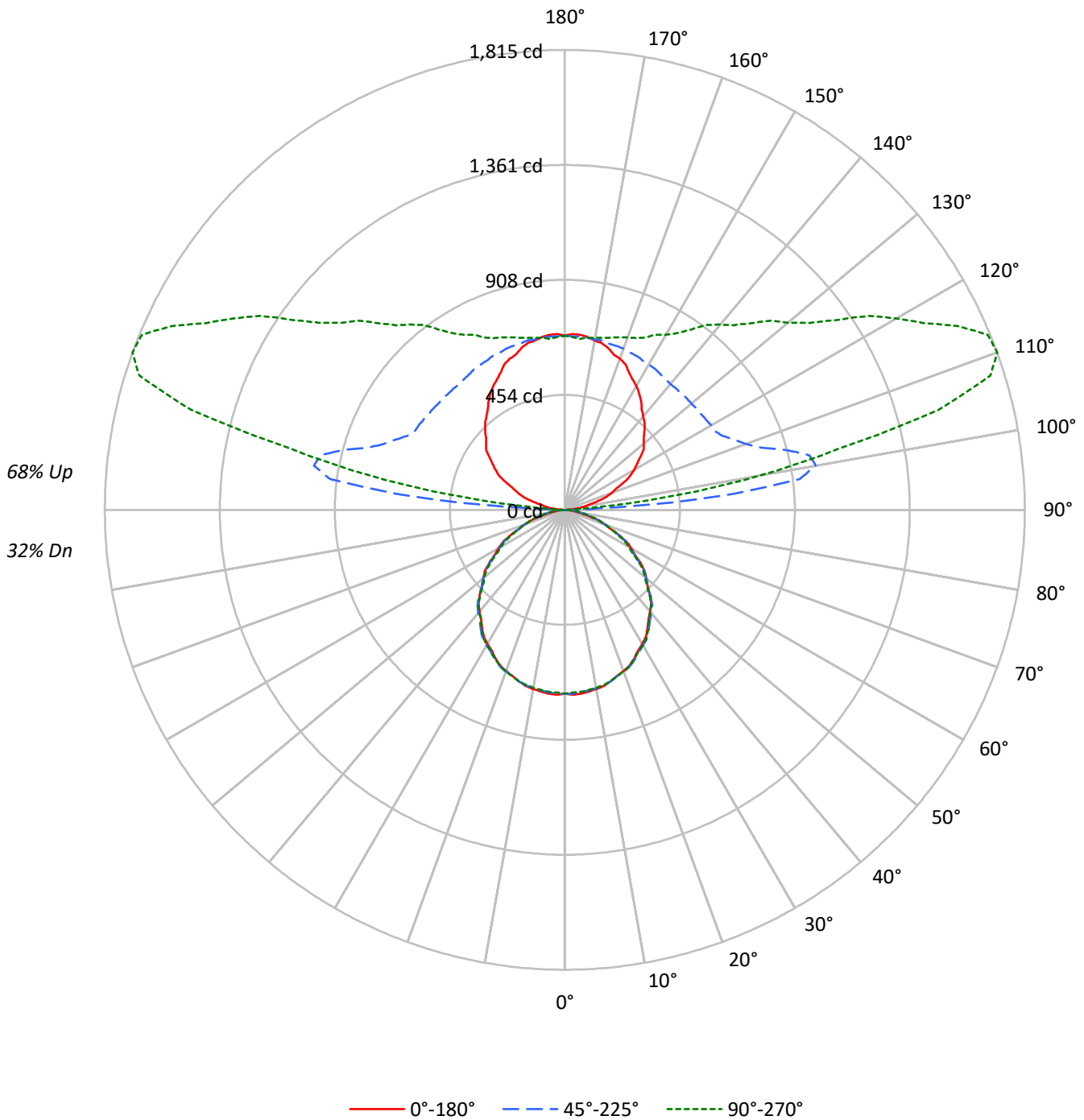
Input Watts (W): 53.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	48	36	28	23	43	32	26	22	26	21	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6695	6695	6695
5°	6744	6701	6676
10°	6728	6697	6678
15°	6693	6693	6686
20°	6649	6669	6669
25°	6586	6634	6613
30°	6506	6585	6556
35°	6409	6508	6462
40°	6303	6392	6328
45°	6189	6233	6136
50°	6027	6027	5931
55°	5836	5760	5673
60°	5554	5442	5355
65°	5132	5030	4986
70°	4494	4532	4513
75°	3615	4000	4025
80°	2572	3390	3427
85°	1567	2848	2848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.1
10°-20°	197.1	3.2
20°-30°	298.4	4.8
30°-40°	357.8	5.7
40°-50°	364.8	5.8
50°-60°	318.4	5.1
60°-70°	228.0	3.6
70°-80°	117.4	1.9
80°-90°	29.7	0.5
90°-100°	313.2	5.0
100°-110°	891.3	14.3
110°-120°	853.9	13.7
120°-130°	675.9	10.8
130°-140°	542.5	8.7
140°-150°	424.7	6.8
150°-160°	310.7	5.0
160°-170°	192.5	3.1
170°-180°	65.3	1.0
0°-30°	564.1	9.0
0°-40°	921.9	14.7
0°-60°	1605.1	25.7
0°-90°	1980.2	31.7
90°-120°	2058.5	32.9
90°-150°	3701.5	59.2
90°-180°	4270.0	68.3
0°-180°	6250.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	721	724	722	721	69
15°	701	695	701	701	700	198
25°	647	642	652	650	650	298
35°	569	568	578	574	574	356
45°	474	473	478	472	470	365
55°	363	358	358	353	353	323
65°	235	230	230	228	228	233
75°	101	106	112	113	113	110
85°	15	23	27	28	27	20
90°	0	0	0	0	0	2
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.6	725.6	725.6	725.6	725.6
2.5°	729.9	723.5	725.6	723.9	721.3
5°	728.2	721.0	723.5	721.5	720.8
7.5°	723.0	715.8	719.1	717.7	717.1
10°	718.2	710.9	714.8	713.4	712.8
12.5°	711.7	705.0	709.4	708.1	708.0
15°	700.7	694.8	700.7	700.7	700.0
17.5°	686.9	681.5	687.8	688.2	687.8
20°	677.2	671.3	679.2	678.5	679.2
22.5°	665.4	660.5	669.0	667.3	667.9
25°	647.0	642.4	651.7	649.6	649.6
27.5°	625.2	621.9	632.0	629.9	629.9
30°	610.7	607.4	618.1	615.4	615.4
32.5°	594.5	592.3	602.5	599.3	599.3
35°	569.0	567.7	577.8	573.7	573.7
37.5°	542.7	541.5	550.6	545.7	544.2
40°	523.3	522.7	530.7	525.4	525.4
42.5°	504.0	503.3	510.3	503.9	503.9
45°	474.3	473.0	477.7	471.6	470.3
47.5°	441.9	440.6	443.5	436.9	436.3
50°	419.9	418.6	419.9	413.8	413.2
52.5°	397.3	394.9	395.2	389.1	389.0
55°	362.8	358.2	358.1	352.7	352.7
57.5°	326.2	320.2	320.7	316.1	315.5
60°	301.0	294.4	294.9	290.9	290.2
62.5°	276.2	268.6	270.2	265.6	265.5
65°	235.1	229.9	230.4	228.4	228.4
67.5°	195.6	190.8	194.3	192.7	192.5
70°	166.6	163.3	168.0	167.9	167.3
72.5°	139.7	139.6	145.4	145.4	145.8
75°	101.4	106.0	112.2	112.9	112.9
77.5°	67.7	75.9	82.6	82.9	82.8
80°	48.4	57.6	63.8	65.2	64.5
82.5°	32.8	42.5	47.7	49.0	48.4
85°	14.8	22.7	26.9	27.5	26.9
87.5°	4.3	9.0	10.7	10.7	9.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)