

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: P561624

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561624
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6517.3 lumens
Efficiency: N/A
Efficacy: 122.7 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

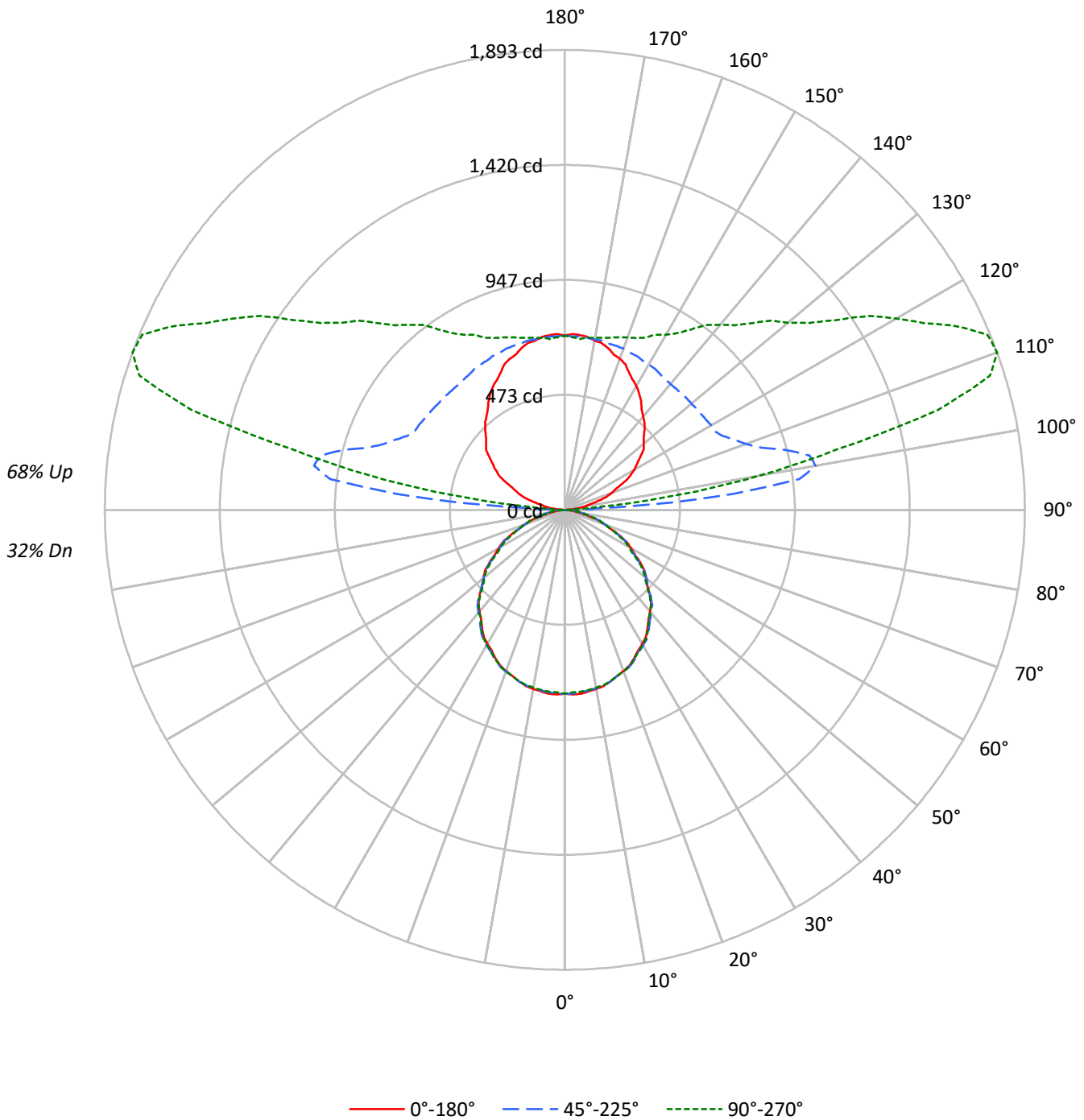
Input Watts (W): 53.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	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	1.1
10°-20°	205.5	3.2
20°-30°	311.2	4.8
30°-40°	373.0	5.7
40°-50°	380.4	5.8
50°-60°	332.0	5.1
60°-70°	237.7	3.6
70°-80°	122.4	1.9
80°-90°	30.9	0.5
90°-100°	326.6	5.0
100°-110°	929.4	14.3
110°-120°	890.4	13.7
120°-130°	704.7	10.8
130°-140°	565.7	8.7
140°-150°	442.8	6.8
150°-160°	324.0	5.0
160°-170°	200.7	3.1
170°-180°	68.1	1.0
0°-30°	588.2	9.0
0°-40°	961.3	14.7
0°-60°	1673.7	25.7
0°-90°	2064.8	31.7
90°-120°	2146.4	32.9
90°-150°	3859.7	59.2
90°-180°	4453.0	68.3
0°-180°	6517.3	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°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	



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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°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)