

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: P523781

Luminaire Tested: **SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523781
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2131.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

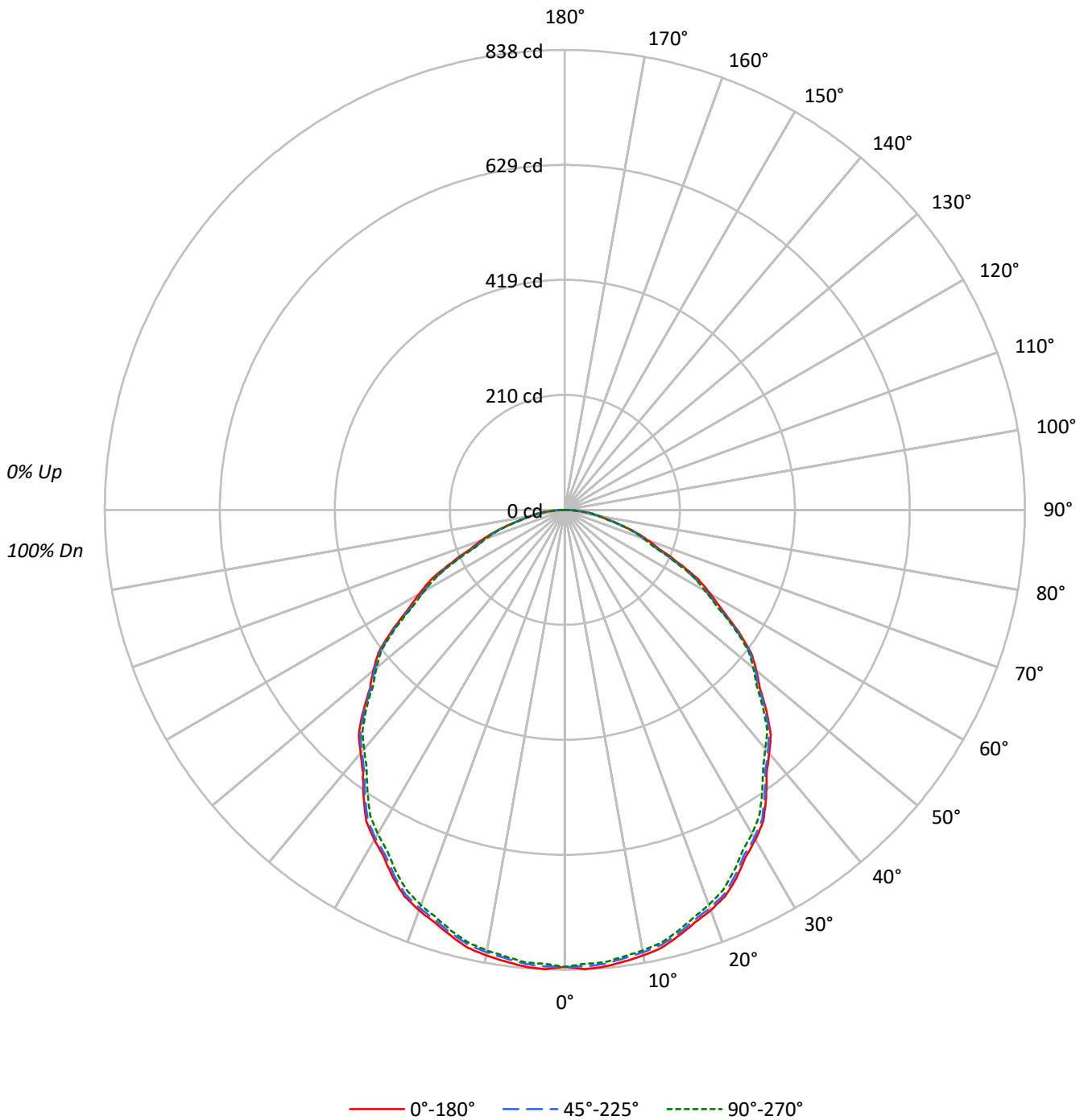
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7683	7683	7683
5°	7739	7692	7665
10°	7725	7671	7637
15°	7675	7633	7591
20°	7624	7581	7524
25°	7533	7481	7407
30°	7394	7355	7261
35°	7201	7151	7061
40°	6970	6926	6847
45°	6780	6731	6665
50°	6537	6495	6432
55°	6198	6116	6069
60°	5643	5480	5455
65°	4971	4764	4748
70°	4292	4114	4114
75°	3693	3643	3590
80°	3257	3294	3220
85°	2551	2784	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.7
10°-20°	224.8	10.5
20°-30°	336.8	15.8
30°-40°	395.0	18.5
40°-50°	396.2	18.6
50°-60°	338.0	15.9
60°-70°	220.4	10.3
70°-80°	110.6	5.2
80°-90°	30.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	640.3	30.0
0°-40°	1035.3	48.6
0°-60°	1769.5	83.0
0°-90°	2131.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	836	828	830	828	828	79
15°	804	796	799	796	795	227
25°	740	731	735	728	728	340
35°	639	633	635	628	627	399
45°	520	516	516	511	511	400
55°	385	384	380	378	377	342
65°	228	223	218	217	218	227
75°	104	104	102	101	101	112
85°	24	26	26	26	26	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.7	832.7	832.7	832.7	832.7
2.5°	837.9	831.1	832.7	831.4	828.0
5°	835.6	827.7	830.5	827.6	827.6
7.5°	829.9	821.3	824.1	821.1	821.0
10°	824.6	816.1	818.8	815.9	815.2
12.5°	817.0	808.5	811.8	808.3	808.1
15°	803.5	795.6	799.1	796.1	794.7
17.5°	788.1	779.6	783.8	779.7	779.1
20°	776.5	767.9	772.1	766.3	766.3
22.5°	762.5	753.9	758.7	751.1	751.1
25°	740.0	731.4	734.9	728.3	727.6
27.5°	713.3	704.9	708.5	701.0	700.9
30°	694.0	686.2	690.4	682.3	681.6
32.5°	673.0	665.7	668.8	660.7	660.0
35°	639.3	632.9	634.9	627.6	626.9
37.5°	603.8	597.2	599.6	593.3	593.0
40°	578.7	574.4	575.1	569.9	568.5
42.5°	555.4	550.5	551.1	546.0	545.7
45°	519.6	516.0	515.9	510.8	510.8
47.5°	481.6	478.9	478.1	473.9	473.8
50°	455.4	453.2	452.5	448.8	448.1
52.5°	427.9	426.9	424.4	421.4	421.2
55°	385.3	383.9	380.2	378.0	377.3
57.5°	339.1	336.2	332.0	328.8	329.4
60°	305.8	302.9	297.0	295.6	295.6
62.5°	273.7	270.2	264.3	262.3	263.4
65°	227.7	223.4	218.2	216.8	217.5
67.5°	185.9	182.1	176.5	176.4	175.9
70°	159.1	156.9	152.5	152.5	152.5
72.5°	135.2	134.2	130.9	130.9	130.3
75°	103.6	103.6	102.2	101.4	100.7
77.5°	77.6	77.9	77.2	76.5	75.2
80°	61.3	62.7	62.0	61.3	60.6
82.5°	46.1	47.5	47.4	46.1	46.0
85°	24.1	26.2	26.3	26.3	26.3
87.5°	6.4	8.7	9.3	9.4	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)