

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: P561571

Luminaire Tested: **SQ4-PC3-0U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561571
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2027.7 lumens
Efficiency: N/A
Efficacy: 98.0 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: Direct

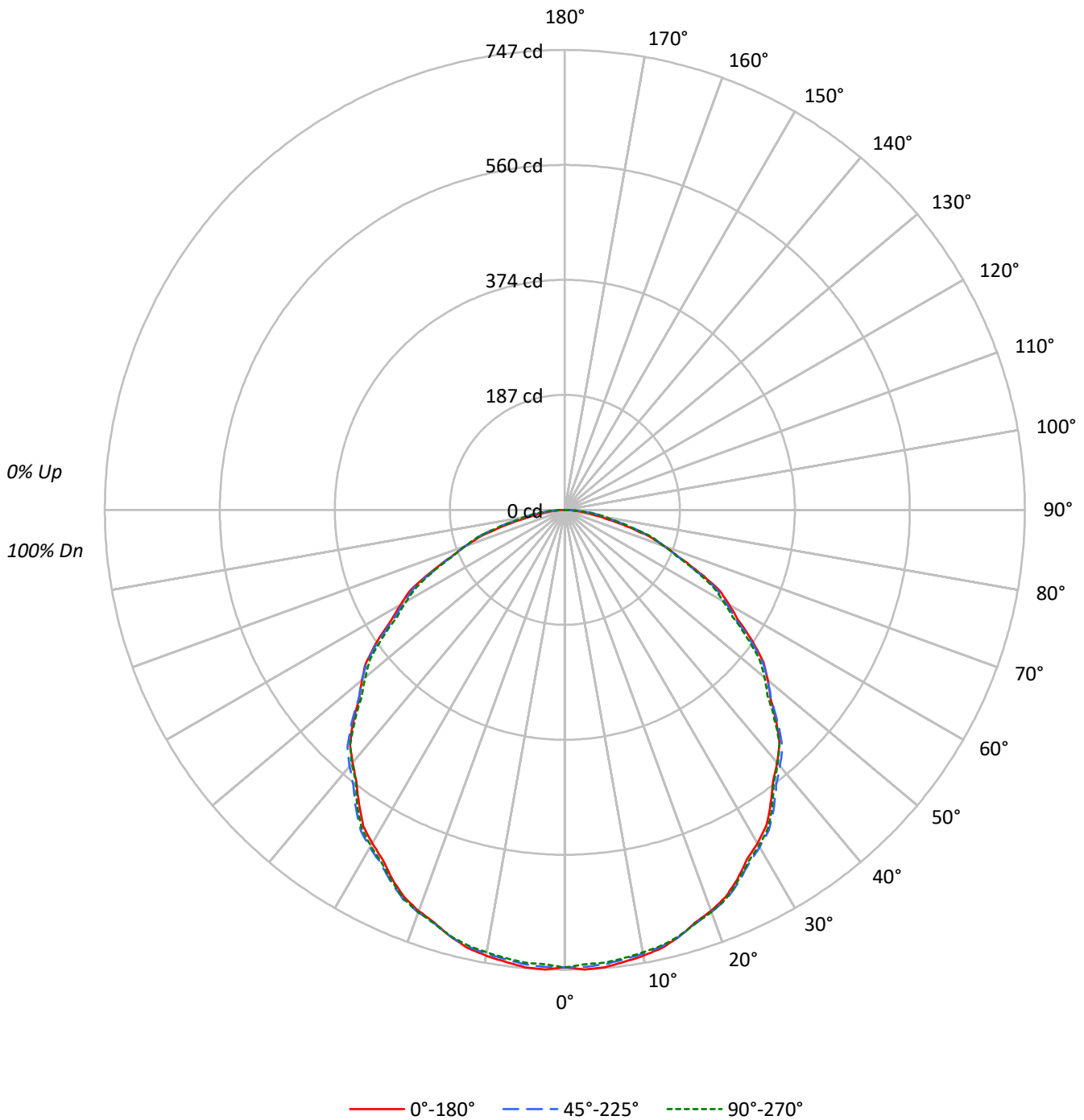
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6855	6855	6855
5°	6906	6862	6836
10°	6890	6858	6838
15°	6853	6853	6847
20°	6808	6829	6829
25°	6744	6793	6772
30°	6662	6743	6713
35°	6563	6663	6617
40°	6454	6546	6480
45°	6337	6382	6283
50°	6172	6172	6073
55°	5976	5899	5810
60°	5687	5573	5484
65°	5257	5152	5106
70°	4602	4640	4621
75°	3704	4096	4121
80°	2630	3475	3507
85°	1598	2911	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.5
10°-20°	201.8	10.0
20°-30°	305.6	15.1
30°-40°	366.3	18.1
40°-50°	373.5	18.4
50°-60°	326.1	16.1
60°-70°	233.4	11.5
70°-80°	120.2	5.9
80°-90°	30.4	1.5
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°	577.7	28.5
0°-40°	944.0	46.6
0°-60°	1643.6	81.1
0°-90°	2027.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	746	738	741	739	738	71
15°	718	712	718	718	717	202
25°	662	658	667	665	665	305
35°	583	581	592	588	588	364
45°	486	484	489	483	482	374
55°	372	367	367	361	361	331
65°	241	235	236	234	234	238
75°	104	109	115	116	116	112
85°	15	23	28	28	28	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.0	743.0	743.0	743.0	743.0
2.5°	747.4	740.9	743.0	741.3	738.6
5°	745.7	738.3	740.9	738.8	738.1
7.5°	740.3	732.9	736.4	735.0	734.3
10°	735.4	728.0	732.0	730.6	729.9
12.5°	728.8	721.9	726.5	725.1	724.9
15°	717.5	711.5	717.5	717.5	716.8
17.5°	703.3	697.8	704.3	704.7	704.3
20°	693.4	687.4	695.5	694.8	695.5
22.5°	681.3	676.3	685.0	683.3	683.9
25°	662.5	657.8	667.3	665.2	665.2
27.5°	640.2	636.8	647.2	645.0	645.0
30°	625.3	622.0	632.9	630.1	630.1
32.5°	608.8	606.5	616.9	613.6	613.6
35°	582.7	581.3	591.6	587.5	587.5
37.5°	555.7	554.5	563.8	558.8	557.2
40°	535.9	535.2	543.5	538.0	538.0
42.5°	516.1	515.4	522.6	515.9	515.9
45°	485.7	484.3	489.1	482.9	481.5
47.5°	452.5	451.2	454.2	447.4	446.7
50°	430.0	428.6	430.0	423.7	423.1
52.5°	406.8	404.4	404.6	398.4	398.3
55°	371.5	366.8	366.7	361.2	361.2
57.5°	334.1	327.9	328.4	323.7	323.1
60°	308.2	301.5	302.0	297.9	297.2
62.5°	282.9	275.1	276.7	272.0	271.9
65°	240.8	235.4	236.0	233.9	233.9
67.5°	200.3	195.3	198.9	197.3	197.2
70°	170.6	167.2	172.0	172.0	171.3
72.5°	143.1	143.0	148.9	148.9	149.3
75°	103.9	108.6	114.9	115.6	115.6
77.5°	69.3	77.7	84.6	84.9	84.8
80°	49.5	58.9	65.4	66.7	66.0
82.5°	33.6	43.5	48.8	50.2	49.5
85°	15.1	23.2	27.5	28.2	27.5
87.5°	4.4	9.2	11.0	11.0	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)