

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: P562298

Luminaire Tested: **SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562298
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

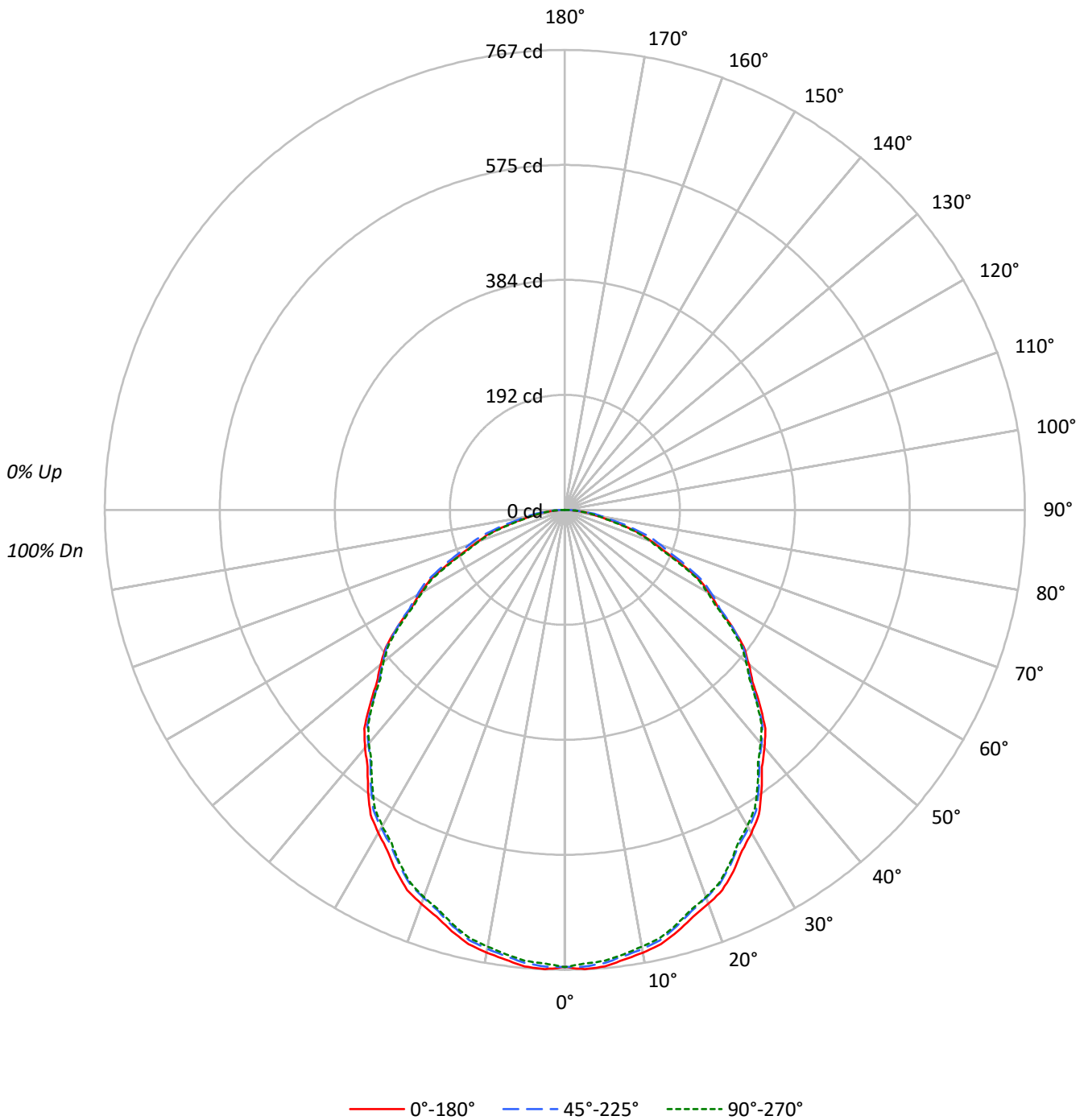
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71				71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60				60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52				52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45				45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40				40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35				35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31				31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28				28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7035	7035	7035
5°	7080	7025	6993
10°	7024	6967	6930
15°	6950	6872	6847
20°	6867	6761	6748
25°	6771	6648	6627
30°	6628	6527	6485
35°	6439	6348	6311
40°	6239	6141	6117
45°	5995	5917	5891
50°	5747	5698	5661
55°	5479	5479	5392
60°	5145	5244	5058
65°	4709	4943	4591
70°	4149	4548	4041
75°	3543	4071	3447
80°	2747	3427	2784
85°	1778	2636	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	3.7
10°-20°	202.7	10.4
20°-30°	300.7	15.5
30°-40°	351.8	18.1
40°-50°	350.3	18.1
50°-60°	302.5	15.6
60°-70°	217.7	11.2
70°-80°	114.2	5.9
80°-90°	28.3	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°	575.2	29.7
0°-40°	927.0	47.8
0°-60°	1579.8	81.4
0°-90°	1940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	756	758	756	755	72
15°	728	718	720	718	717	205
25°	665	654	653	649	651	306
35°	572	564	564	558	560	357
45°	460	456	454	452	452	355
55°	341	340	341	336	335	304
65°	216	222	226	218	210	214
75°	99	109	114	107	97	107
85°	17	22	25	24	22	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.5	762.5	762.5	762.5	762.5
2.5°	766.8	760.5	762.5	760.8	757.1
5°	764.5	756.0	758.5	756.4	755.1
7.5°	756.7	748.8	750.7	748.5	747.7
10°	749.7	741.9	743.7	741.0	739.7
12.5°	741.7	733.3	735.1	732.4	731.6
15°	727.6	718.4	719.5	718.1	716.8
17.5°	711.2	701.8	702.0	699.9	699.6
20°	699.4	689.5	688.6	685.9	687.3
22.5°	686.5	676.1	675.2	671.4	673.3
25°	665.1	653.9	653.0	649.0	651.0
27.5°	640.4	629.3	629.3	623.8	625.9
30°	622.1	611.6	612.7	606.0	608.7
32.5°	602.7	593.3	593.9	587.2	589.8
35°	571.7	563.8	563.6	558.3	560.3
37.5°	540.0	533.0	531.9	528.9	529.4
40°	518.0	512.1	509.9	507.9	507.9
42.5°	494.9	489.5	487.3	485.8	485.3
45°	459.5	455.6	453.5	452.1	451.5
47.5°	424.6	420.9	419.1	418.1	417.5
50°	400.4	397.8	397.0	395.0	394.4
52.5°	376.2	374.6	373.9	371.4	370.7
55°	340.6	339.9	340.6	335.9	335.2
57.5°	303.5	304.6	306.7	300.4	298.8
60°	278.8	281.4	284.2	276.7	274.1
62.5°	253.5	257.7	261.6	253.1	249.4
65°	215.7	222.2	226.4	217.5	210.3
67.5°	179.1	187.2	192.3	182.7	174.5
70°	153.8	163.0	168.6	159.0	149.8
72.5°	131.8	142.1	146.6	137.5	128.3
75°	99.4	108.6	114.2	106.6	96.7
77.5°	70.5	79.2	83.8	77.2	69.1
80°	51.7	60.9	64.5	59.0	52.4
82.5°	36.7	44.3	46.8	43.4	39.0
85°	16.8	22.1	24.9	23.5	22.2
87.5°	4.3	8.0	10.2	10.2	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)