

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: P523777

Luminaire Tested: **SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523777
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2008.5 lumens
Efficiency: N/A
Efficacy: 97.0 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

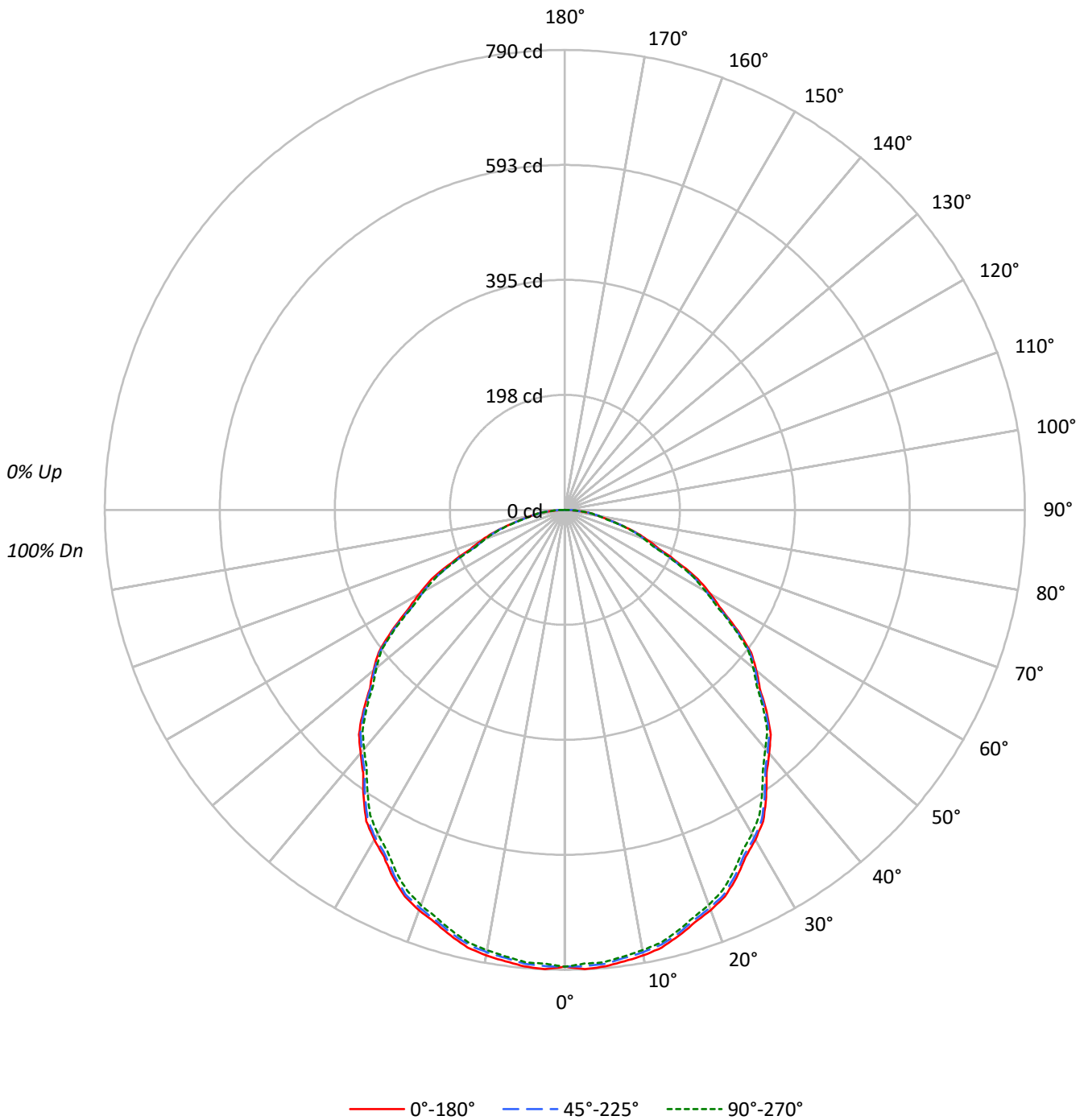
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				
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°	7240	7240	7240
5°	7293	7249	7223
10°	7281	7230	7197
15°	7233	7193	7154
20°	7185	7145	7091
25°	7100	7051	6980
30°	6968	6931	6844
35°	6786	6740	6654
40°	6569	6528	6453
45°	6390	6345	6281
50°	6160	6120	6061
55°	5841	5763	5720
60°	5318	5165	5139
65°	4685	4488	4475
70°	4044	3876	3876
75°	3483	3433	3383
80°	3071	3108	3034
85°	2403	2625	2625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.7
10°-20°	211.9	10.5
20°-30°	317.4	15.8
30°-40°	372.3	18.5
40°-50°	373.4	18.6
50°-60°	318.5	15.9
60°-70°	207.7	10.3
70°-80°	104.2	5.2
80°-90°	28.9	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°	603.5	30.0
0°-40°	975.7	48.6
0°-60°	1667.7	83.0
0°-90°	2008.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	788	780	783	780	780	75
15°	757	750	753	750	749	214
25°	697	689	693	686	686	321
35°	602	596	598	592	591	376
45°	490	486	486	481	481	377
55°	363	362	358	356	356	323
65°	215	210	206	204	205	214
75°	98	98	96	96	95	106
85°	23	25	25	25	25	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.7	784.7	784.7	784.7	784.7
2.5°	789.7	783.2	784.7	783.6	780.3
5°	787.5	780.1	782.7	779.9	779.9
7.5°	782.1	774.1	776.6	773.9	773.7
10°	777.2	769.1	771.7	768.9	768.2
12.5°	770.0	762.0	765.1	761.8	761.6
15°	757.2	749.8	753.1	750.3	749.0
17.5°	742.8	734.7	738.7	734.8	734.3
20°	731.8	723.7	727.7	722.2	722.2
22.5°	718.6	710.5	715.0	707.8	707.8
25°	697.4	689.3	692.6	686.4	685.7
27.5°	672.2	664.3	667.7	660.7	660.5
30°	654.1	646.7	650.6	643.0	642.4
32.5°	634.3	627.4	630.3	622.7	622.0
35°	602.5	596.4	598.4	591.5	590.8
37.5°	569.1	562.9	565.1	559.1	558.9
40°	545.4	541.4	542.0	537.1	535.8
42.5°	523.4	518.8	519.4	514.6	514.3
45°	489.7	486.3	486.3	481.4	481.4
47.5°	453.9	451.4	450.6	446.6	446.5
50°	429.2	427.1	426.4	423.0	422.3
52.5°	403.3	402.4	400.0	397.1	397.0
55°	363.1	361.8	358.3	356.2	355.6
57.5°	319.5	316.8	312.9	309.9	310.5
60°	288.2	285.5	279.9	278.5	278.5
62.5°	257.9	254.7	249.1	247.2	248.3
65°	214.6	210.5	205.6	204.3	205.0
67.5°	175.2	171.6	166.3	166.3	165.8
70°	149.9	147.9	143.7	143.7	143.7
72.5°	127.4	126.4	123.4	123.4	122.8
75°	97.7	97.7	96.3	95.6	94.9
77.5°	73.2	73.4	72.8	72.1	70.8
80°	57.8	59.1	58.5	57.8	57.1
82.5°	43.5	44.8	44.7	43.5	43.3
85°	22.7	24.7	24.8	24.8	24.8
87.5°	6.1	8.2	8.8	8.8	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)