

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: P523775

Luminaire Tested: **SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523775
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1921.6 lumens
Efficiency: N/A
Efficacy: 93.3 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

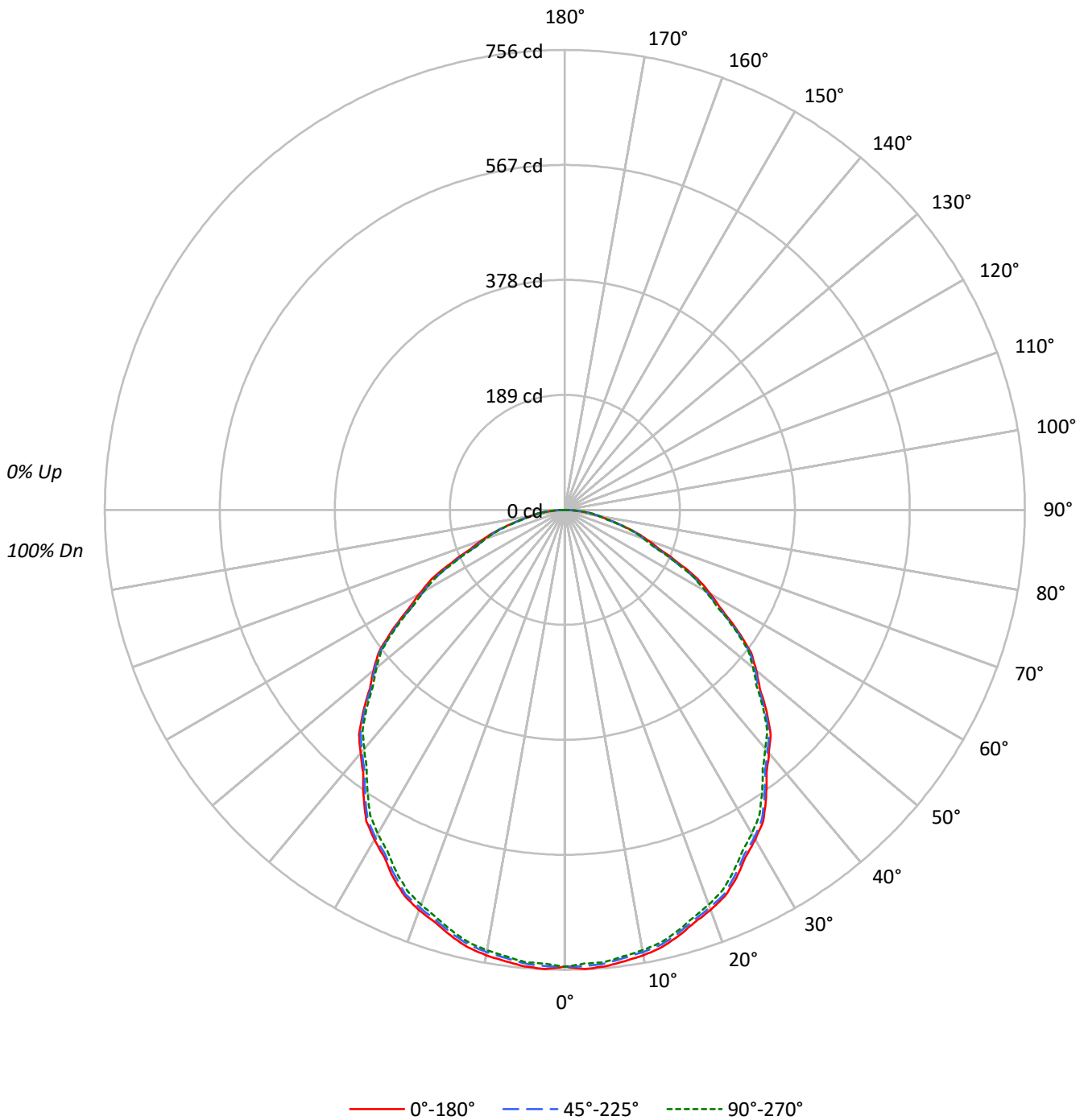
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6927	6927	6927
5°	6978	6935	6911
10°	6966	6917	6886
15°	6920	6882	6845
20°	6874	6836	6783
25°	6792	6745	6678
30°	6667	6632	6548
35°	6492	6448	6366
40°	6285	6245	6174
45°	6113	6070	6010
50°	5894	5856	5799
55°	5588	5514	5472
60°	5087	4942	4918
65°	4482	4294	4281
70°	3868	3709	3709
75°	3329	3283	3237
80°	2938	2970	2901
85°	2297	2509	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.7
10°-20°	202.7	10.5
20°-30°	303.6	15.8
30°-40°	356.1	18.5
40°-50°	357.3	18.6
50°-60°	304.8	15.9
60°-70°	198.8	10.3
70°-80°	99.7	5.2
80°-90°	27.6	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°	577.3	30.0
0°-40°	933.5	48.6
0°-60°	1595.5	83.0
0°-90°	1921.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	753	746	749	746	746	72
15°	724	717	720	718	717	204
25°	667	660	663	657	656	307
35°	576	571	572	566	565	360
45°	468	465	465	461	461	361
55°	347	346	343	341	340	309
65°	205	201	197	195	196	205
75°	93	93	92	91	91	101
85°	22	24	24	24	24	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.8	750.8	750.8	750.8	750.8
2.5°	755.5	749.4	750.8	749.7	746.6
5°	753.4	746.3	748.8	746.2	746.2
7.5°	748.3	740.6	743.0	740.4	740.3
10°	743.6	735.8	738.3	735.6	735.0
12.5°	736.7	729.0	732.0	728.8	728.7
15°	724.5	717.4	720.5	717.9	716.6
17.5°	710.7	702.9	706.7	703.0	702.5
20°	700.1	692.4	696.2	690.9	690.9
22.5°	687.5	679.8	684.1	677.2	677.2
25°	667.2	659.5	662.6	656.7	656.0
27.5°	643.1	635.5	638.8	632.1	632.0
30°	625.8	618.7	622.5	615.2	614.6
32.5°	606.8	600.3	603.0	595.7	595.1
35°	576.4	570.6	572.5	565.9	565.2
37.5°	544.4	538.5	540.6	535.0	534.7
40°	521.8	517.9	518.5	513.9	512.6
42.5°	500.7	496.4	496.9	492.3	492.1
45°	468.5	465.3	465.2	460.6	460.6
47.5°	434.3	431.8	431.1	427.3	427.2
50°	410.6	408.7	408.0	404.7	404.0
52.5°	385.9	385.0	382.7	379.9	379.8
55°	347.4	346.1	342.8	340.8	340.2
57.5°	305.7	303.1	299.4	296.5	297.0
60°	275.7	273.1	267.8	266.5	266.5
62.5°	246.8	243.7	238.3	236.5	237.5
65°	205.3	201.4	196.7	195.4	196.1
67.5°	167.7	164.2	159.1	159.1	158.6
70°	143.4	141.5	137.5	137.5	137.5
72.5°	121.9	121.0	118.0	118.0	117.5
75°	93.4	93.4	92.1	91.4	90.8
77.5°	70.0	70.3	69.6	68.9	67.8
80°	55.3	56.6	55.9	55.3	54.6
82.5°	41.6	42.9	42.8	41.6	41.5
85°	21.7	23.6	23.7	23.7	23.7
87.5°	5.8	7.8	8.4	8.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)