

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: P564151

Luminaire Tested: **SQ4-PR1-0U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564151
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

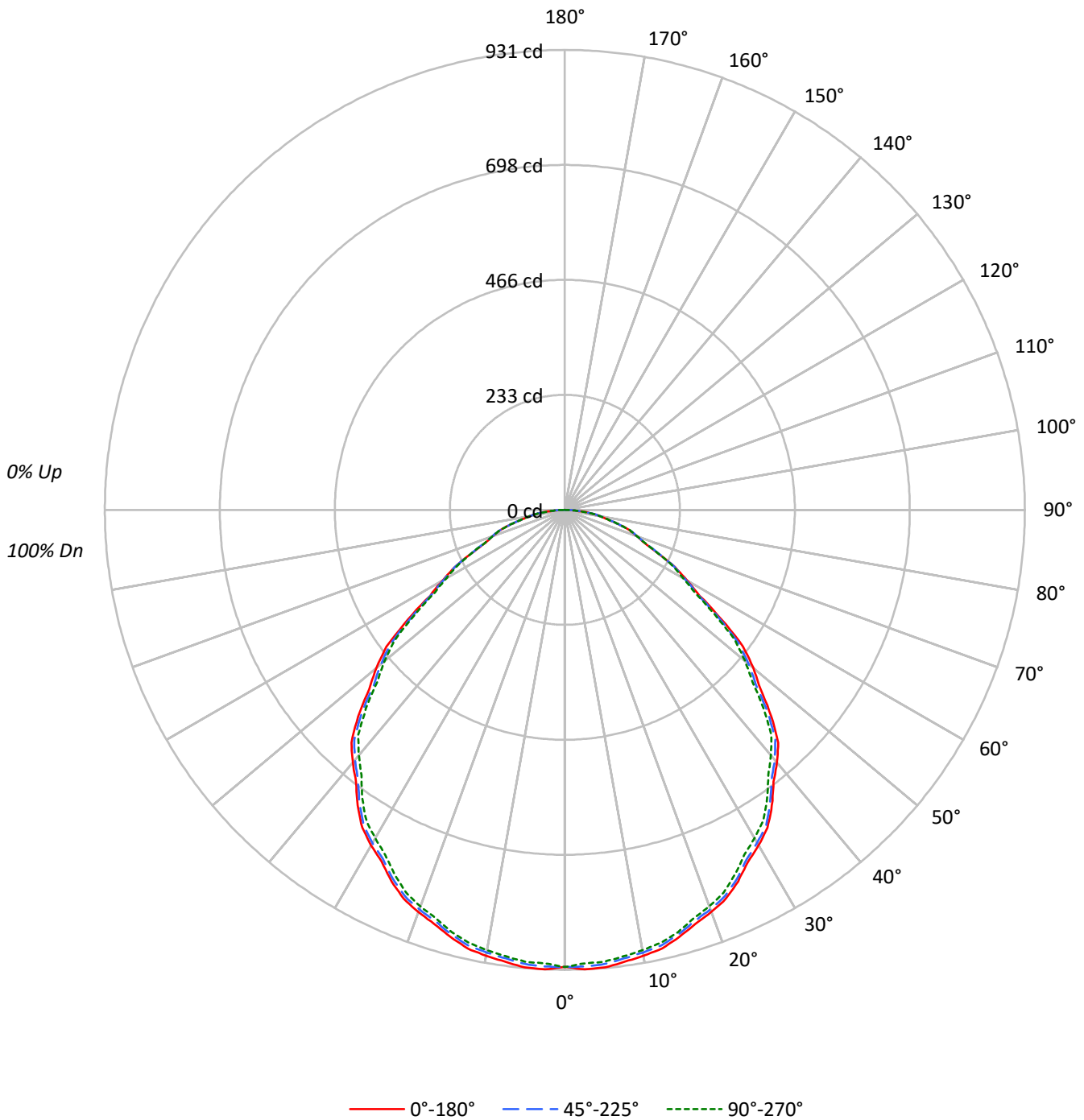
Lumens per Lamp: N/A
Luminaire Lumens: 2313.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5592	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5143	5054	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3401
65°	3027	3039	3016
70°	2780	2795	2795
75°	2671	2671	2690
80°	2511	2540	2511
85°	2025	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.8
10°-20°	250.3	10.8
20°-30°	377.6	16.3
30°-40°	449.9	19.5
40°-50°	443.6	19.2
50°-60°	339.0	14.7
60°-70°	209.8	9.1
70°-80°	119.2	5.2
80°-90°	36.2	1.6
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°	715.4	30.9
0°-40°	1165.3	50.4
0°-60°	1947.9	84.2
0°-90°	2313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	930	920	923	920	918	88
15°	895	886	889	886	885	253
25°	830	820	824	815	814	382
35°	731	722	724	715	714	456
45°	591	584	581	571	569	453
55°	387	381	378	372	371	347
65°	208	206	209	207	207	211
75°	112	112	112	113	113	119
85°	29	30	32	32	32	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.3	925.3	925.3	925.3	925.3
2.5°	931.0	922.9	925.3	923.2	918.9
5°	930.0	919.9	922.9	919.6	918.1
7.5°	922.9	912.9	915.9	912.6	911.7
10°	916.5	907.1	910.1	906.9	905.3
12.5°	909.5	899.5	903.1	899.2	897.7
15°	895.0	885.6	889.4	886.2	884.6
17.5°	879.0	869.1	872.8	869.1	867.1
20°	866.3	856.9	860.7	855.1	854.3
22.5°	852.3	842.9	846.7	839.2	839.0
25°	829.6	819.5	824.0	815.3	814.5
27.5°	802.7	793.3	797.1	788.2	787.2
30°	784.2	774.8	778.6	769.0	767.5
32.5°	763.2	754.4	757.6	748.0	747.1
35°	730.8	722.2	724.4	714.8	714.1
37.5°	694.0	686.2	687.4	676.9	676.1
40°	667.8	660.0	660.7	649.5	648.7
42.5°	639.2	631.4	630.7	619.5	618.7
45°	591.3	583.5	581.0	570.6	569.0
47.5°	536.8	529.0	524.2	515.8	514.7
50°	497.3	489.5	485.3	478.1	475.8
52.5°	454.6	446.8	443.3	436.7	434.3
55°	387.3	381.1	378.5	372.1	370.6
57.5°	323.4	319.2	318.5	312.2	311.6
60°	284.5	282.2	282.1	276.5	276.5
62.5°	251.4	249.6	250.9	247.2	246.6
65°	208.0	206.4	208.8	207.2	207.2
67.5°	173.7	173.7	175.2	174.5	174.5
70°	154.6	154.6	155.4	155.4	155.4
72.5°	137.4	136.8	138.8	138.8	138.2
75°	112.4	112.4	112.4	113.2	113.2
77.5°	87.5	87.7	88.3	88.1	87.5
80°	70.9	71.7	71.7	70.9	70.9
82.5°	54.4	55.1	55.1	55.0	54.4
85°	28.7	30.2	31.9	31.9	31.9
87.5°	8.3	10.8	12.8	12.7	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)