

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: P563471

Luminaire Tested: **SQ4-PP3-0U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563471
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2924.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

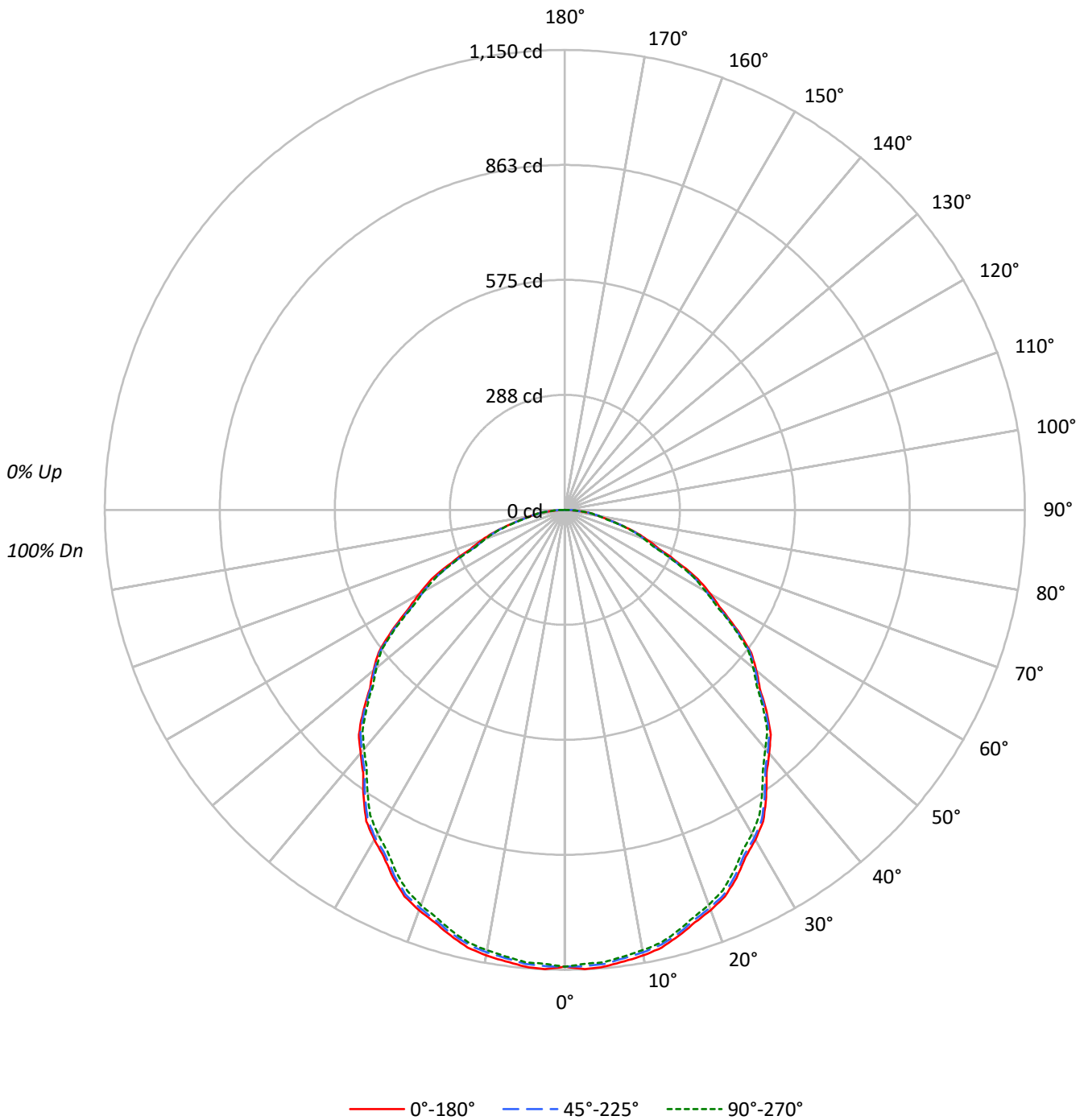
Input Watts (W): 26.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									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	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°	7027	7027	7027
5°	7078	7035	7010
10°	7066	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5670	5594	5552
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3764	3764
75°	3379	3332	3284
80°	2979	3014	2943
85°	2329	2541	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.7
10°-20°	308.5	10.5
20°-30°	462.0	15.8
30°-40°	541.9	18.5
40°-50°	543.6	18.6
50°-60°	463.8	15.9
60°-70°	302.5	10.3
70°-80°	151.7	5.2
80°-90°	42.0	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°	878.5	30.0
0°-40°	1420.4	48.6
0°-60°	2427.8	83.0
0°-90°	2924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1146	1136	1139	1135	1135	109
15°	1102	1092	1096	1092	1090	311
25°	1015	1004	1008	999	998	467
35°	877	868	871	861	860	548
45°	713	708	708	701	701	549
55°	529	527	522	519	518	470
65°	312	306	299	297	298	312
75°	142	142	140	139	138	154
85°	33	36	36	36	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1149.6	1140.3	1142.4	1140.7	1136.0
5°	1146.4	1135.7	1139.4	1135.4	1135.4
7.5°	1138.6	1126.9	1130.6	1126.6	1126.4
10°	1131.4	1119.7	1123.4	1119.4	1118.4
12.5°	1121.0	1109.3	1113.8	1109.0	1108.8
15°	1102.4	1091.6	1096.4	1092.3	1090.4
17.5°	1081.4	1069.6	1075.4	1069.7	1068.9
20°	1065.3	1053.6	1059.3	1051.3	1051.3
22.5°	1046.1	1034.4	1040.9	1030.5	1030.5
25°	1015.3	1003.5	1008.3	999.2	998.3
27.5°	978.6	967.1	972.0	961.8	961.6
30°	952.2	941.4	947.2	936.2	935.2
32.5°	923.4	913.4	917.6	906.5	905.5
35°	877.1	868.3	871.1	861.1	860.1
37.5°	828.4	819.4	822.6	814.0	813.6
40°	794.0	788.1	789.0	781.9	780.0
42.5°	762.0	755.3	756.2	749.1	748.7
45°	712.9	708.0	707.9	700.9	700.9
47.5°	660.8	657.1	656.0	650.2	650.0
50°	624.8	621.9	620.8	615.8	614.8
52.5°	587.1	585.8	582.3	578.1	577.9
55°	528.7	526.7	521.7	518.6	517.7
57.5°	465.2	461.3	455.6	451.2	452.0
60°	419.5	415.6	407.5	405.5	405.5
62.5°	375.5	370.8	362.7	359.9	361.5
65°	312.4	306.5	299.4	297.4	298.4
67.5°	255.1	249.8	242.1	242.1	241.3
70°	218.3	215.3	209.3	209.3	209.3
72.5°	185.4	184.1	179.6	179.6	178.8
75°	142.2	142.2	140.2	139.2	138.2
77.5°	106.5	106.9	105.9	104.9	103.1
80°	84.1	86.1	85.1	84.1	83.1
82.5°	63.3	65.2	65.1	63.3	63.1
85°	33.0	36.0	36.0	36.0	36.0
87.5°	8.8	11.9	12.8	12.8	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)