

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: P564827

Luminaire Tested: **SQ4-PW1-0U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564827
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.9 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

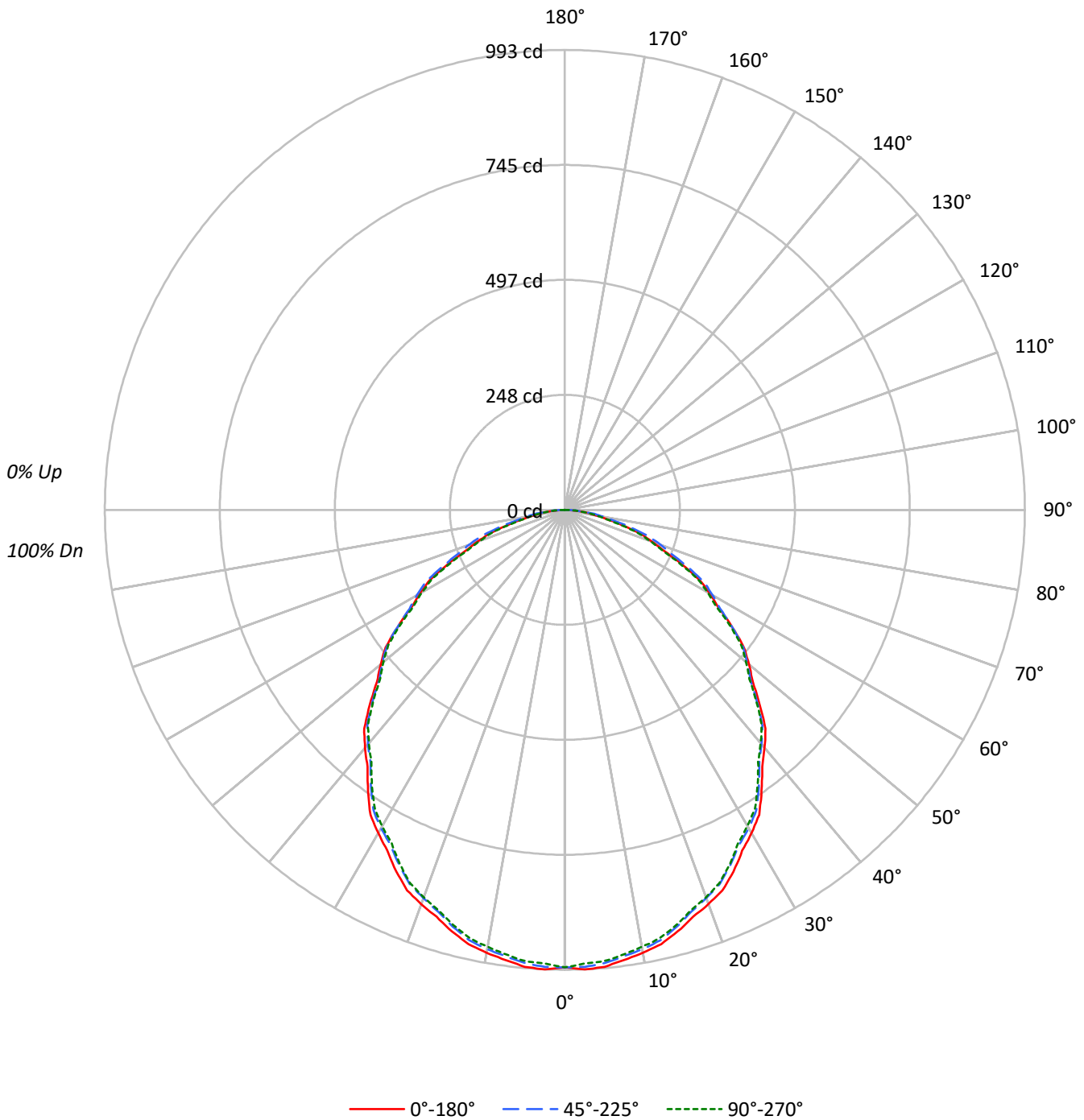
Input Watts (W): 26.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6065	6016	5984
15°	6001	5935	5912
20°	5930	5839	5827
25°	5847	5740	5723
30°	5723	5636	5599
35°	5560	5482	5449
40°	5387	5303	5282
45°	5177	5110	5087
50°	4962	4921	4888
55°	4731	4731	4656
60°	4442	4528	4367
65°	4065	4269	3965
70°	3584	3928	3491
75°	3061	3515	2978
80°	2373	2958	2405
85°	1538	2272	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.7
10°-20°	262.6	10.4
20°-30°	389.5	15.5
30°-40°	455.7	18.1
40°-50°	453.7	18.1
50°-60°	391.8	15.6
60°-70°	282.0	11.2
70°-80°	147.9	5.9
80°-90°	36.7	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°	745.1	29.7
0°-40°	1200.8	47.8
0°-60°	2046.3	81.4
0°-90°	2512.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	990	979	982	980	978	94
15°	942	930	932	930	928	266
25°	862	847	846	841	843	396
35°	740	730	730	723	726	463
45°	595	590	587	586	585	459
55°	441	440	441	435	434	394
65°	279	288	293	282	272	277
75°	129	141	148	138	125	138
85°	22	29	32	30	29	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	993.2	985.1	987.7	985.5	980.7
5°	990.3	979.2	982.5	979.8	978.1
7.5°	980.2	970.0	972.4	969.5	968.5
10°	971.1	960.9	963.3	959.8	958.1
12.5°	960.7	949.8	952.2	948.7	947.6
15°	942.4	930.5	932.0	930.2	928.5
17.5°	921.2	909.1	909.4	906.6	906.2
20°	905.9	893.1	892.0	888.5	890.2
22.5°	889.2	875.7	874.5	869.7	872.1
25°	861.5	847.0	845.8	840.7	843.2
27.5°	829.5	815.2	815.2	808.0	810.7
30°	805.8	792.2	793.6	785.0	788.4
32.5°	780.7	768.5	769.3	760.6	764.0
35°	740.5	730.3	730.1	723.2	725.7
37.5°	699.5	690.4	689.0	685.0	685.7
40°	670.9	663.3	660.5	657.9	657.9
42.5°	641.0	634.0	631.2	629.3	628.6
45°	595.2	590.1	587.4	585.6	584.8
47.5°	550.0	545.2	542.8	541.6	540.7
50°	518.6	515.2	514.3	511.7	510.8
52.5°	487.3	485.3	484.4	481.0	480.2
55°	441.2	440.3	441.2	435.1	434.2
57.5°	393.2	394.5	397.3	389.1	387.1
60°	361.1	364.5	368.1	358.4	355.0
62.5°	328.4	333.9	338.9	327.8	323.0
65°	279.3	287.8	293.3	281.7	272.4
67.5°	232.0	242.5	249.1	236.6	226.1
70°	199.3	211.2	218.4	206.0	194.1
72.5°	170.7	184.0	189.9	178.1	166.2
75°	128.8	140.7	147.9	138.1	125.3
77.5°	91.4	102.6	108.6	100.0	89.5
80°	67.0	78.9	83.5	76.4	67.9
82.5°	47.5	57.4	60.6	56.3	50.5
85°	21.8	28.6	32.2	30.4	28.7
87.5°	5.6	10.3	13.2	13.2	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)