

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: P562299

Luminaire Tested: **SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562299
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-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 1986.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

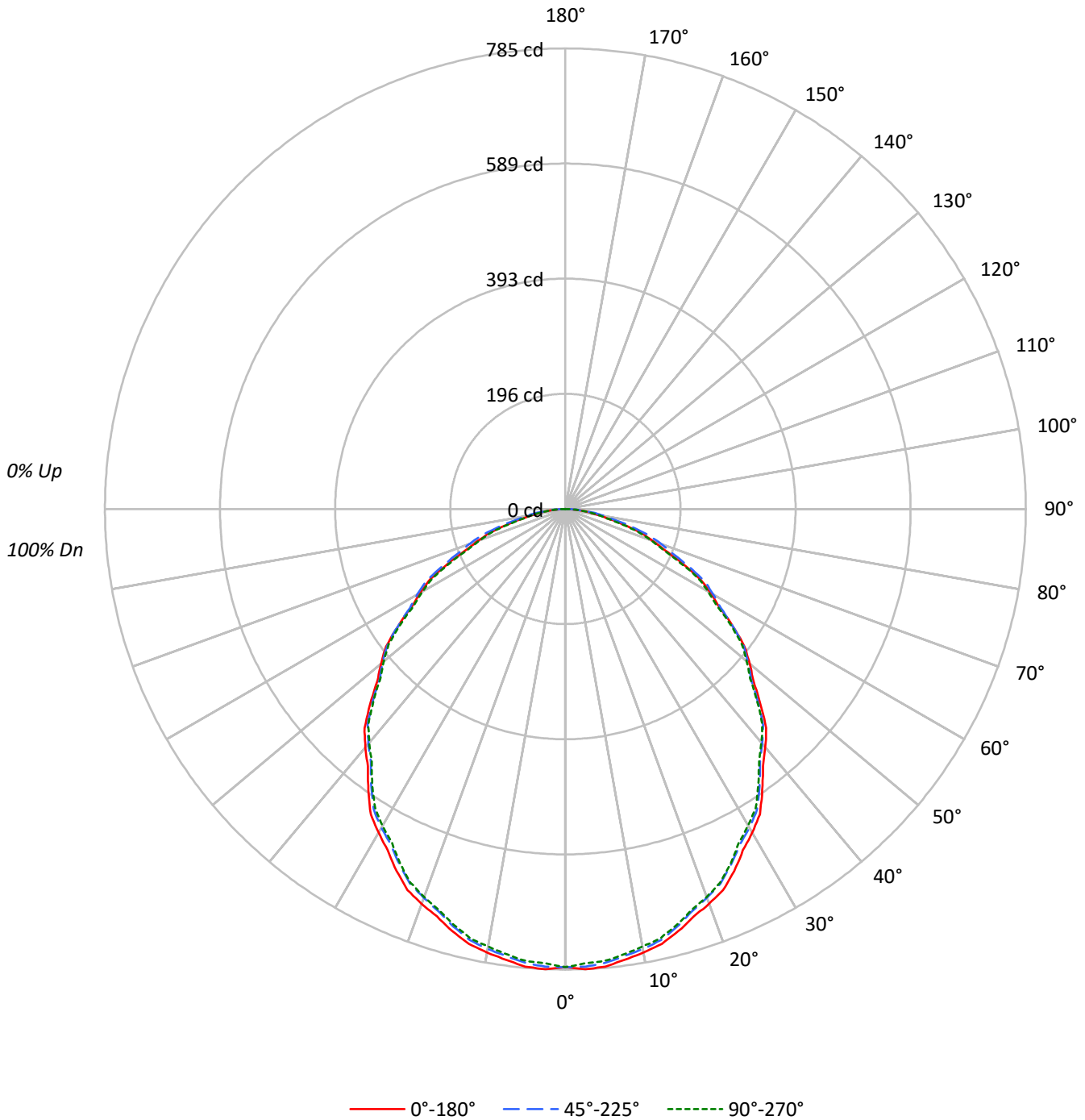
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7204	7204	7204
5°	7251	7193	7161
10°	7192	7134	7096
15°	7116	7038	7011
20°	7031	6923	6910
25°	6933	6807	6786
30°	6786	6684	6640
35°	6593	6501	6462
40°	6388	6288	6264
45°	6139	6059	6032
50°	5885	5836	5796
55°	5611	5611	5522
60°	5268	5370	5180
65°	4820	5060	4700
70°	4249	4659	4138
75°	3629	4167	3533
80°	2816	3507	2853
85°	1821	2699	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.7
10°-20°	207.6	10.4
20°-30°	307.9	15.5
30°-40°	360.3	18.1
40°-50°	358.7	18.1
50°-60°	309.7	15.6
60°-70°	223.0	11.2
70°-80°	116.9	5.9
80°-90°	29.0	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°	589.0	29.6
0°-40°	949.3	47.8
0°-60°	1617.7	81.4
0°-90°	1986.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	783	774	777	775	773	74
15°	745	736	737	735	734	210
25°	681	670	669	665	667	313
35°	585	577	577	572	574	366
45°	470	466	464	463	462	363
55°	349	348	349	344	343	311
65°	221	228	232	223	215	219
75°	102	111	117	109	99	109
85°	17	23	26	24	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	785.2	778.7	780.8	779.1	775.3
5°	782.9	774.1	776.7	774.6	773.2
7.5°	774.9	766.8	768.7	766.5	765.7
10°	767.7	759.7	761.5	758.8	757.4
12.5°	759.5	750.9	752.7	750.0	749.2
15°	745.0	735.6	736.8	735.4	734.0
17.5°	728.2	718.7	718.9	716.7	716.4
20°	716.1	706.0	705.1	702.4	703.8
22.5°	702.9	692.3	691.4	687.6	689.4
25°	681.0	669.6	668.7	664.6	666.6
27.5°	655.7	644.4	644.5	638.7	640.9
30°	637.0	626.3	627.4	620.6	623.3
32.5°	617.2	607.5	608.1	601.3	604.0
35°	585.4	577.4	577.2	571.7	573.7
37.5°	553.0	545.8	544.7	541.5	542.1
40°	530.4	524.3	522.1	520.1	520.1
42.5°	506.7	501.2	499.0	497.5	497.0
45°	470.5	466.5	464.4	463.0	462.3
47.5°	434.8	431.0	429.1	428.2	427.5
50°	410.0	407.3	406.6	404.5	403.8
52.5°	385.2	383.6	382.9	380.3	379.6
55°	348.8	348.1	348.8	343.9	343.3
57.5°	310.8	311.9	314.1	307.6	306.0
60°	285.5	288.2	291.0	283.4	280.7
62.5°	259.6	263.9	267.9	259.1	255.4
65°	220.8	227.6	231.8	222.7	215.3
67.5°	183.4	191.7	196.9	187.1	178.7
70°	157.5	167.0	172.7	162.8	153.4
72.5°	135.0	145.5	150.1	140.8	131.4
75°	101.8	111.2	116.9	109.2	99.1
77.5°	72.2	81.1	85.9	79.1	70.7
80°	53.0	62.4	66.0	60.4	53.7
82.5°	37.6	45.4	47.9	44.5	39.9
85°	17.2	22.6	25.5	24.0	22.7
87.5°	4.4	8.2	10.5	10.5	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)