

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: P564818

Luminaire Tested: **SQ4-PW1-0U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564818
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

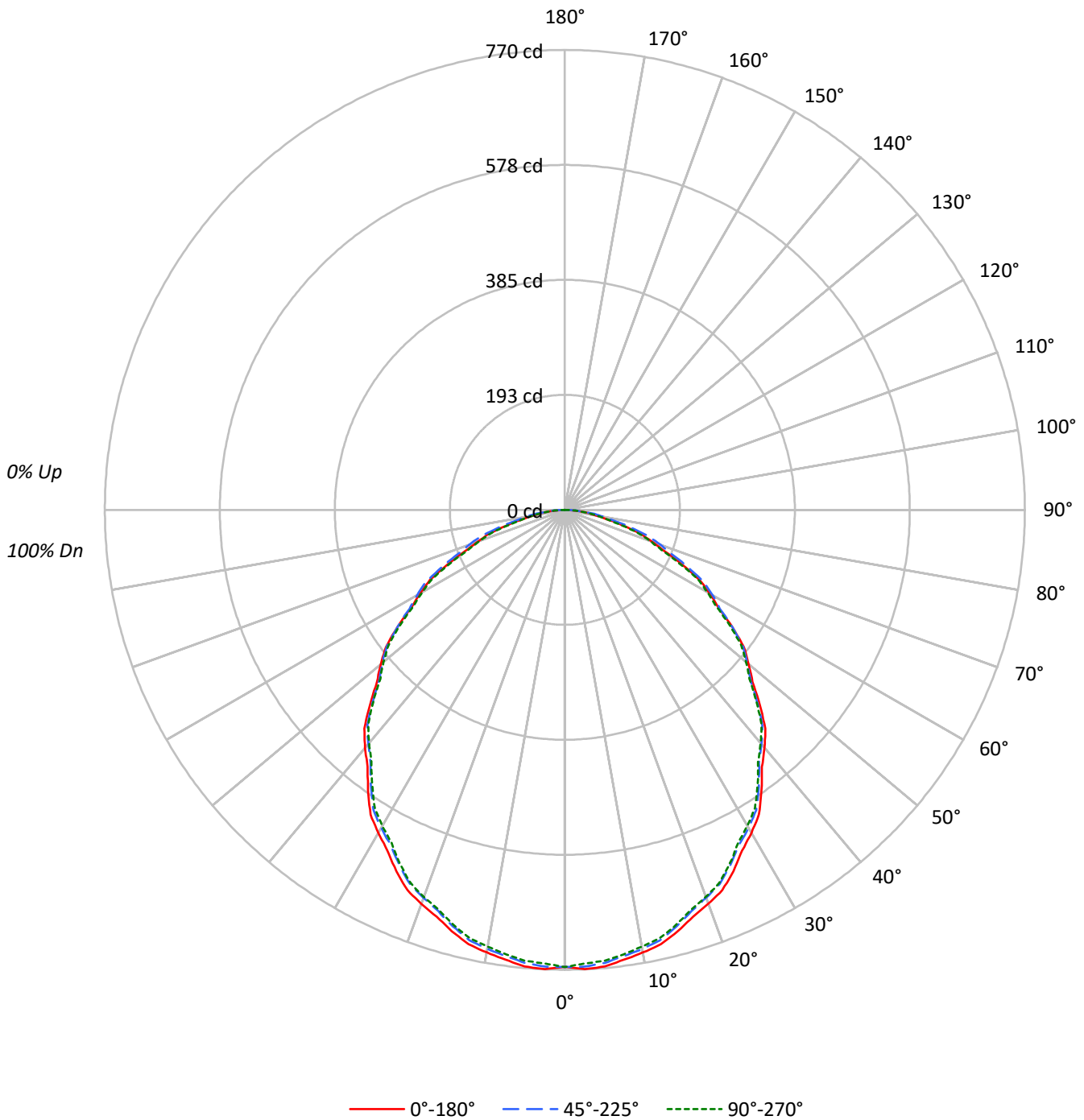
Lumens per Lamp: N/A
Luminaire Lumens: 1947.5 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6977	6899	6873
20°	6892	6786	6774
25°	6796	6673	6653
30°	6653	6552	6509
35°	6464	6373	6334
40°	6263	6165	6140
45°	6019	5939	5913
50°	5769	5721	5683
55°	5500	5500	5413
60°	5165	5264	5076
65°	4726	4962	4609
70°	4165	4567	4057
75°	3558	4085	3461
80°	2758	3438	2795
85°	1789	2646	2361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	3.7
10°-20°	203.5	10.4
20°-30°	301.8	15.5
30°-40°	353.2	18.1
40°-50°	351.6	18.1
50°-60°	303.6	15.6
60°-70°	218.6	11.2
70°-80°	114.6	5.9
80°-90°	28.4	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°	577.4	29.6
0°-40°	930.6	47.8
0°-60°	1585.9	81.4
0°-90°	1947.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1947.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	768	759	761	759	758	73
15°	730	721	722	721	720	206
25°	668	656	656	652	654	307
35°	574	566	566	560	562	359
45°	461	457	455	454	453	356
55°	342	341	342	337	336	305
65°	216	223	227	218	211	215
75°	100	109	115	107	97	107
85°	17	22	25	24	22	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.4	765.4	765.4	765.4	765.4
2.5°	769.7	763.4	765.4	763.7	760.0
5°	767.5	758.9	761.4	759.3	758.0
7.5°	759.6	751.7	753.6	751.4	750.6
10°	752.6	744.7	746.5	743.8	742.5
12.5°	744.5	736.1	737.9	735.2	734.4
15°	730.4	721.1	722.3	720.9	719.6
17.5°	713.9	704.5	704.7	702.6	702.3
20°	702.0	692.1	691.2	688.6	689.9
22.5°	689.1	678.7	677.8	674.0	675.9
25°	667.6	656.4	655.5	651.5	653.5
27.5°	642.8	631.7	631.8	626.1	628.3
30°	624.5	613.9	615.0	608.4	611.0
32.5°	605.1	595.6	596.2	589.5	592.1
35°	573.9	566.0	565.8	560.5	562.4
37.5°	542.1	535.1	534.0	530.9	531.4
40°	520.0	514.0	511.9	509.8	509.8
42.5°	496.8	491.3	489.2	487.7	487.2
45°	461.3	457.3	455.2	453.8	453.2
47.5°	426.2	422.5	420.7	419.7	419.1
50°	401.9	399.3	398.6	396.5	395.9
52.5°	377.7	376.1	375.4	372.8	372.1
55°	341.9	341.3	341.9	337.2	336.5
57.5°	304.7	305.7	307.9	301.5	300.0
60°	279.9	282.5	285.3	277.8	275.1
62.5°	254.5	258.7	262.6	254.0	250.3
65°	216.5	223.1	227.3	218.3	211.1
67.5°	179.8	188.0	193.0	183.4	175.2
70°	154.4	163.7	169.3	159.6	150.4
72.5°	132.3	142.6	147.2	138.0	128.8
75°	99.8	109.0	114.6	107.0	97.1
77.5°	70.8	79.5	84.2	77.5	69.3
80°	51.9	61.2	64.7	59.2	52.6
82.5°	36.8	44.5	46.9	43.6	39.1
85°	16.9	22.1	25.0	23.6	22.3
87.5°	4.3	8.0	10.3	10.3	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)