

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: P564810

Luminaire Tested: **SQ4-PW1-0U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564810
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

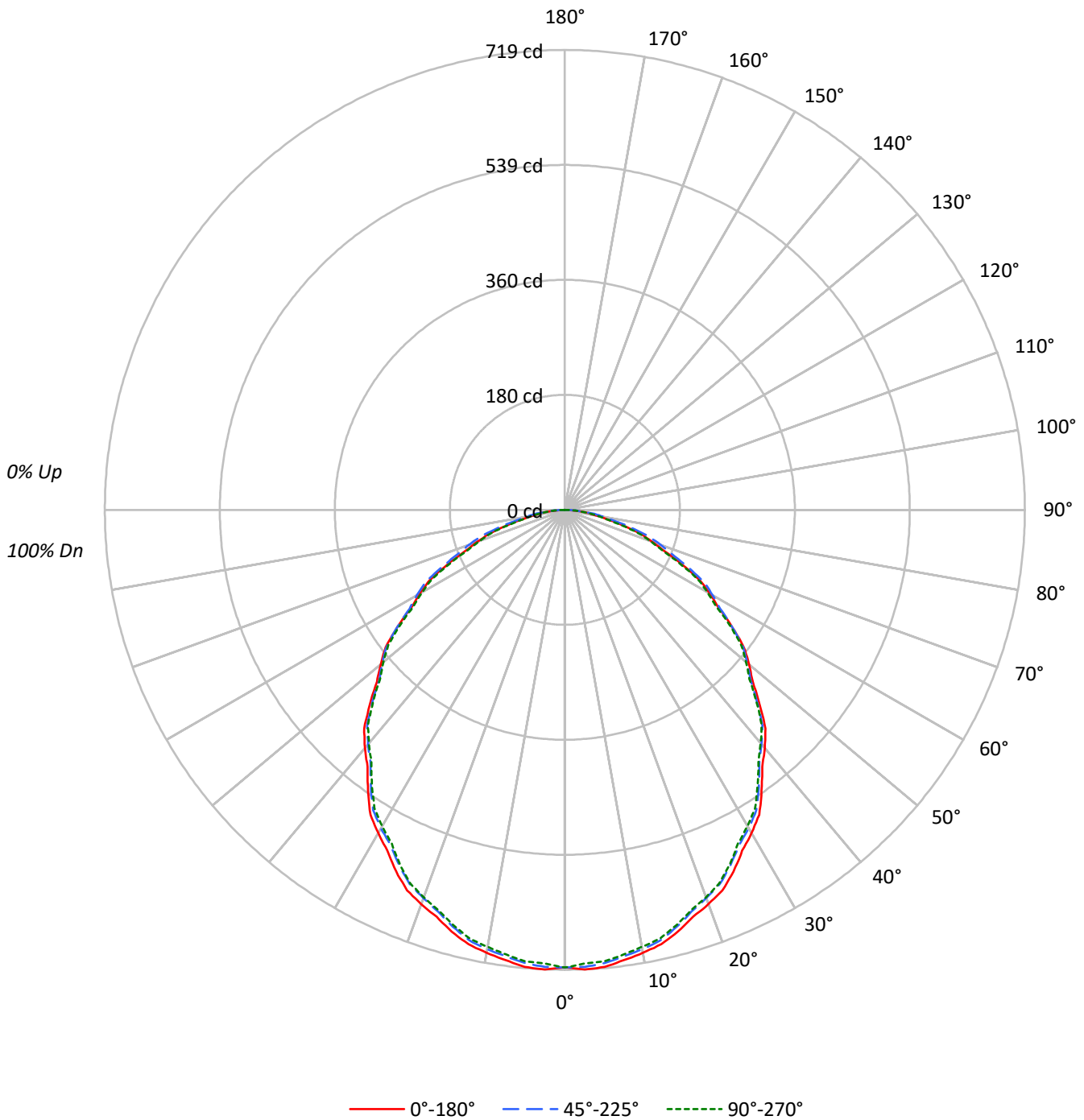
Lumens per Lamp: N/A
Luminaire Lumens: 1819.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	6600	6600	6600
5°	6642	6590	6561
10°	6589	6535	6501
15°	6519	6446	6423
20°	6441	6343	6330
25°	6351	6236	6217
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5625	5551	5526
50°	5391	5347	5309
55°	5139	5139	5059
60°	4825	4919	4744
65°	4416	4637	4307
70°	3893	4268	3790
75°	3326	3818	3233
80°	2577	3214	2614
85°	1673	2467	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.7
10°-20°	190.2	10.4
20°-30°	282.1	15.5
30°-40°	330.0	18.1
40°-50°	328.6	18.1
50°-60°	283.7	15.6
60°-70°	204.3	11.2
70°-80°	107.1	5.9
80°-90°	26.6	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°	539.6	29.6
0°-40°	869.6	47.8
0°-60°	1482.0	81.4
0°-90°	1819.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	717	709	712	710	708	68
15°	682	674	675	674	672	192
25°	624	613	613	609	611	287
35°	536	529	529	524	526	335
45°	431	427	425	424	424	333
55°	320	319	320	315	314	285
65°	202	208	212	204	197	200
75°	93	102	107	100	91	100
85°	16	21	23	22	21	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.3	715.3	715.3	715.3	715.3
2.5°	719.3	713.4	715.3	713.7	710.2
5°	717.2	709.2	711.5	709.6	708.4
7.5°	709.9	702.5	704.2	702.2	701.4
10°	703.3	695.9	697.6	695.1	693.9
12.5°	695.7	687.9	689.6	687.0	686.3
15°	682.5	673.9	674.9	673.7	672.4
17.5°	667.1	658.4	658.6	656.5	656.3
20°	656.0	646.8	646.0	643.5	644.7
22.5°	643.9	634.2	633.4	629.9	631.6
25°	623.9	613.4	612.6	608.8	610.7
27.5°	600.7	590.4	590.4	585.1	587.1
30°	583.6	573.7	574.7	568.5	571.0
32.5°	565.4	556.5	557.1	550.9	553.3
35°	536.3	528.9	528.7	523.7	525.6
37.5°	506.6	500.0	499.0	496.1	496.6
40°	485.9	480.3	478.3	476.4	476.4
42.5°	464.2	459.2	457.2	455.8	455.3
45°	431.1	427.4	425.4	424.1	423.5
47.5°	398.3	394.8	393.1	392.2	391.6
50°	375.6	373.1	372.5	370.5	369.9
52.5°	352.9	351.4	350.8	348.4	347.7
55°	319.5	318.9	319.5	315.1	314.5
57.5°	284.7	285.7	287.8	281.8	280.3
60°	261.5	264.0	266.6	259.6	257.1
62.5°	237.8	241.8	245.4	237.4	233.9
65°	202.3	208.5	212.4	204.0	197.3
67.5°	168.0	175.7	180.4	171.4	163.7
70°	144.3	152.9	158.2	149.2	140.5
72.5°	123.6	133.3	137.5	129.0	120.4
75°	93.3	101.9	107.1	100.0	90.7
77.5°	66.2	74.3	78.6	72.4	64.8
80°	48.5	57.2	60.5	55.3	49.2
82.5°	34.4	41.6	43.9	40.7	36.6
85°	15.8	20.7	23.3	22.0	20.8
87.5°	4.0	7.5	9.6	9.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)