

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: P563474

Luminaire Tested: **SQ4-PP3-0U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563474
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

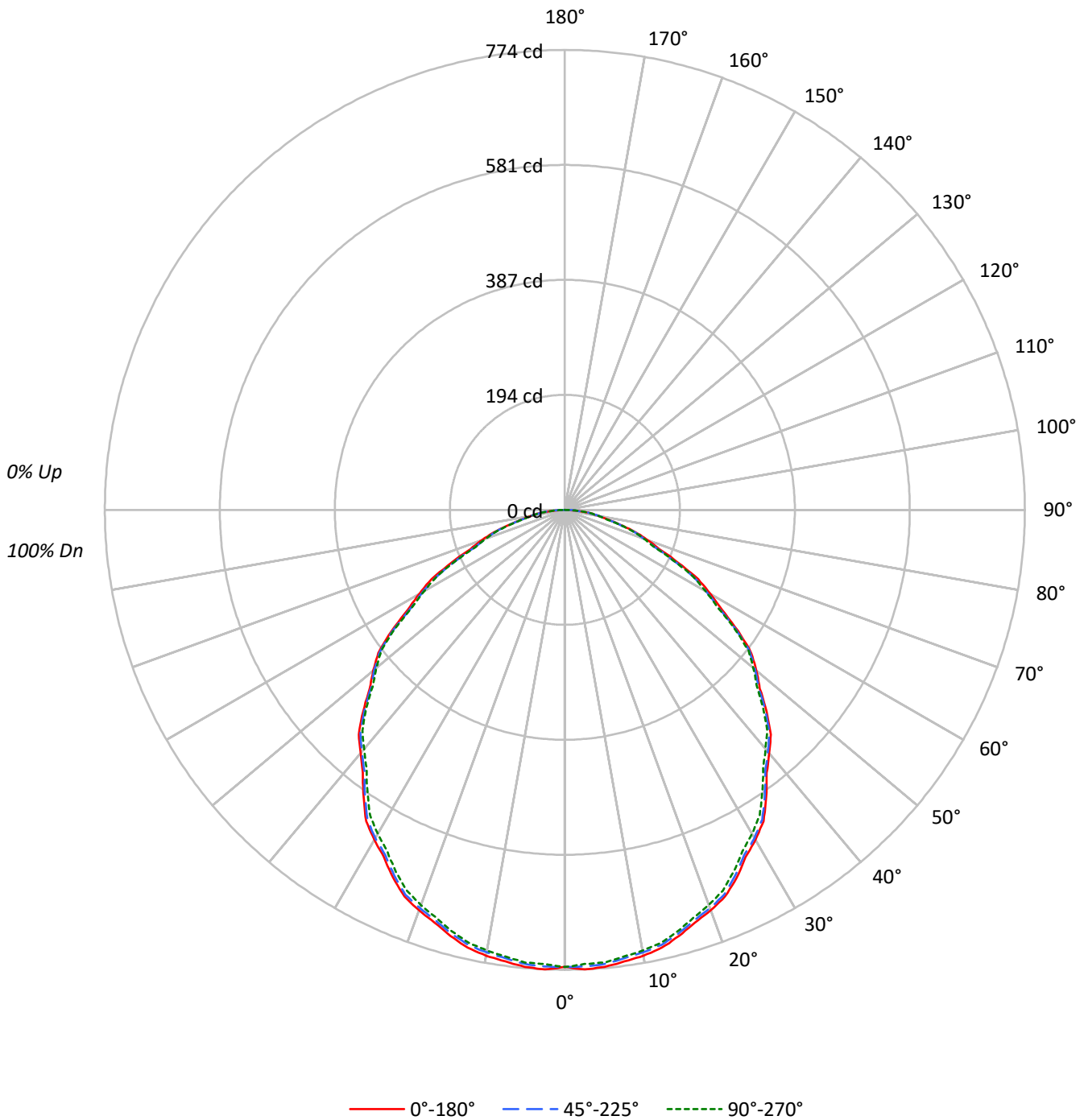
Lumens per Lamp: N/A
Luminaire Lumens: 1968.9 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	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°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7090	7052	7013
20°	7044	7003	6950
25°	6960	6911	6843
30°	6831	6795	6709
35°	6652	6607	6524
40°	6440	6399	6325
45°	6263	6220	6159
50°	6038	6000	5942
55°	5726	5651	5607
60°	5213	5063	5039
65°	4593	4401	4386
70°	3965	3801	3801
75°	3411	3365	3315
80°	3007	3044	2975
85°	2350	2572	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.7
10°-20°	207.7	10.5
20°-30°	311.1	15.8
30°-40°	364.9	18.5
40°-50°	366.1	18.6
50°-60°	312.3	15.9
60°-70°	203.7	10.3
70°-80°	102.2	5.2
80°-90°	28.3	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°	591.6	30.0
0°-40°	956.5	48.6
0°-60°	1634.8	83.0
0°-90°	1968.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	765	767	765	765	73
15°	742	735	738	736	734	209
25°	684	676	679	673	672	314
35°	591	585	587	580	579	369
45°	480	477	477	472	472	370
55°	356	355	351	349	349	316
65°	210	206	202	200	201	210
75°	96	96	94	94	93	104
85°	22	24	24	24	24	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.3	769.3	769.3	769.3	769.3
2.5°	774.1	767.8	769.3	768.1	765.0
5°	772.0	764.7	767.3	764.6	764.6
7.5°	766.7	758.8	761.3	758.6	758.5
10°	761.9	754.0	756.5	753.8	753.1
12.5°	754.9	747.0	750.0	746.8	746.6
15°	742.3	735.1	738.3	735.5	734.2
17.5°	728.2	720.3	724.1	720.3	719.8
20°	717.4	709.5	713.3	707.9	707.9
22.5°	704.4	696.5	700.9	693.9	693.9
25°	683.7	675.8	678.9	672.9	672.2
27.5°	659.0	651.2	654.5	647.7	647.5
30°	641.2	633.9	637.8	630.4	629.7
32.5°	621.8	615.0	617.9	610.4	609.8
35°	590.6	584.7	586.6	579.8	579.2
37.5°	557.9	551.8	553.9	548.1	547.9
40°	534.7	530.7	531.3	526.5	525.2
42.5°	513.1	508.6	509.2	504.4	504.2
45°	480.0	476.8	476.7	472.0	472.0
47.5°	445.0	442.5	441.8	437.8	437.7
50°	420.7	418.7	418.0	414.6	414.0
52.5°	395.4	394.4	392.1	389.3	389.2
55°	356.0	354.7	351.3	349.2	348.6
57.5°	313.2	310.6	306.8	303.8	304.3
60°	282.5	279.9	274.4	273.1	273.1
62.5°	252.8	249.7	244.2	242.3	243.4
65°	210.4	206.4	201.6	200.3	200.9
67.5°	171.8	168.2	163.0	163.0	162.5
70°	147.0	145.0	140.9	140.9	140.9
72.5°	124.9	123.9	121.0	120.9	120.4
75°	95.7	95.7	94.4	93.7	93.0
77.5°	71.7	72.0	71.3	70.6	69.4
80°	56.6	58.0	57.3	56.6	56.0
82.5°	42.6	43.9	43.8	42.6	42.5
85°	22.2	24.2	24.3	24.3	24.3
87.5°	5.9	8.0	8.6	8.6	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)