

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: P562814

Luminaire Tested: **SQ4-PC3-0U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562814
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

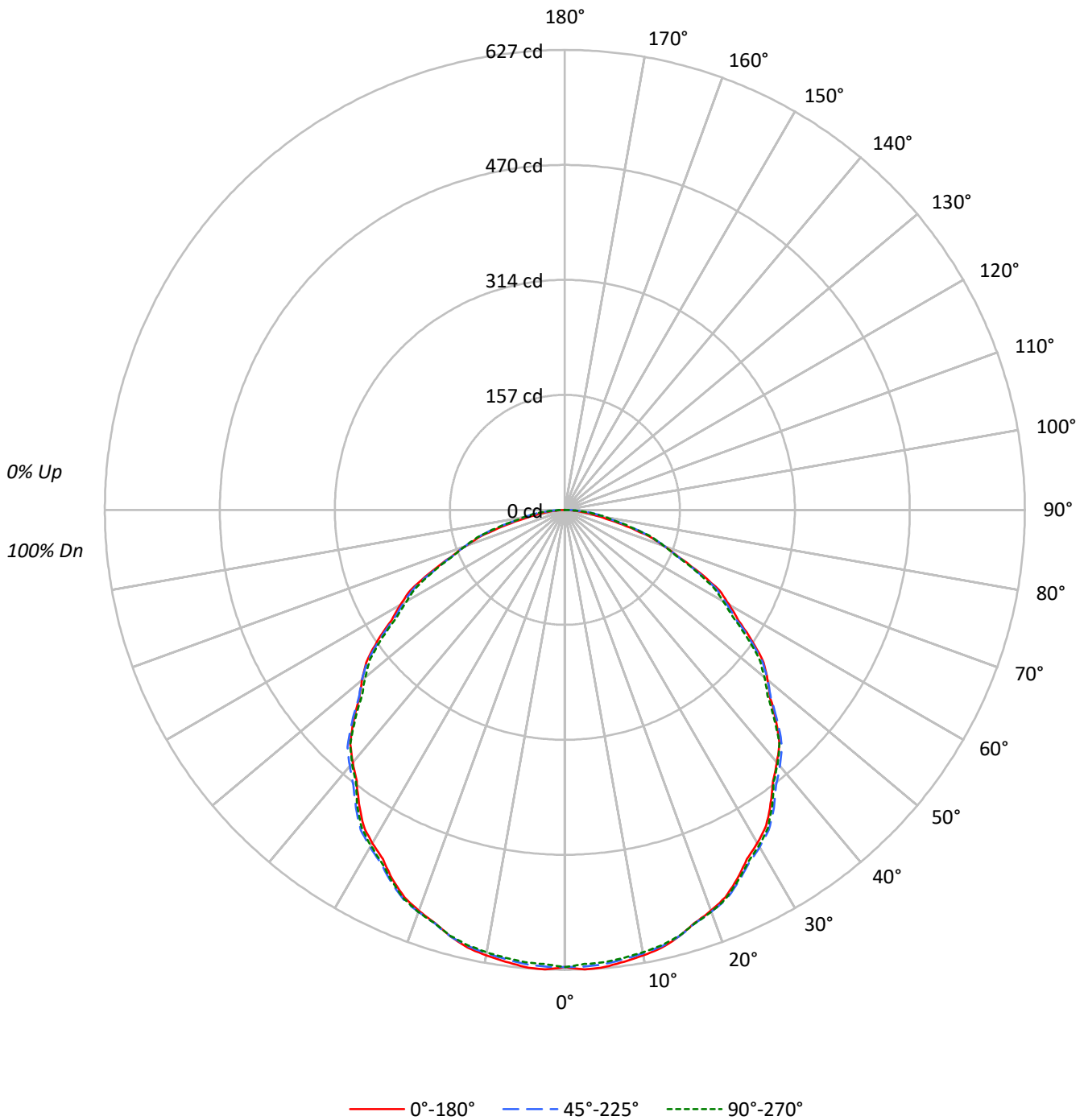
Lumens per Lamp: N/A
Luminaire Lumens: 1701.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5752	5752	5752
5°	5795	5757	5736
10°	5780	5753	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5700	5681
30°	5590	5657	5633
35°	5507	5591	5552
40°	5415	5492	5437
45°	5317	5355	5271
50°	5177	5177	5095
55°	5014	4948	4874
60°	4772	4676	4600
65°	4410	4323	4283
70°	3860	3893	3876
75°	3108	3436	3458
80°	2210	2912	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.5
10°-20°	169.3	10.0
20°-30°	256.4	15.1
30°-40°	307.4	18.1
40°-50°	313.4	18.4
50°-60°	273.6	16.1
60°-70°	195.8	11.5
70°-80°	100.9	5.9
80°-90°	25.5	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°	484.7	28.5
0°-40°	792.0	46.6
0°-60°	1379.0	81.1
0°-90°	1701.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	626	620	622	620	619	59
15°	602	597	602	602	601	170
25°	556	552	560	558	558	256
35°	489	488	496	493	493	306
45°	408	406	410	405	404	314
55°	312	308	308	303	303	278
65°	202	198	198	196	196	200
75°	87	91	96	97	97	94
85°	13	20	23	24	23	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.4	623.4	623.4	623.4	623.4
2.5°	627.1	621.6	623.4	621.9	619.7
5°	625.7	619.5	621.6	619.9	619.3
7.5°	621.2	615.0	617.8	616.7	616.1
10°	617.0	610.8	614.1	613.0	612.4
12.5°	611.5	605.7	609.5	608.3	608.2
15°	602.0	596.9	602.0	602.0	601.4
17.5°	590.1	585.5	590.9	591.3	590.9
20°	581.8	576.7	583.5	583.0	583.5
22.5°	571.6	567.5	574.8	573.3	573.8
25°	555.8	551.9	559.9	558.1	558.1
27.5°	537.1	534.3	543.0	541.2	541.2
30°	524.7	521.8	531.0	528.7	528.7
32.5°	510.8	508.9	517.6	514.8	514.8
35°	488.9	487.7	496.4	492.9	492.9
37.5°	466.2	465.2	473.1	468.9	467.5
40°	449.6	449.1	456.0	451.4	451.4
42.5°	433.0	432.4	438.4	432.9	432.9
45°	407.5	406.4	410.4	405.2	404.0
47.5°	379.7	378.5	381.1	375.4	374.8
50°	360.7	359.6	360.7	355.5	355.0
52.5°	341.3	339.3	339.5	334.3	334.2
55°	311.7	307.7	307.6	303.0	303.0
57.5°	280.3	275.1	275.5	271.6	271.0
60°	258.6	252.9	253.4	249.9	249.3
62.5°	237.3	230.8	232.1	228.2	228.1
65°	202.0	197.5	198.0	196.2	196.2
67.5°	168.1	163.9	166.9	165.5	165.4
70°	143.1	140.3	144.3	144.3	143.7
72.5°	120.1	119.9	124.9	124.9	125.2
75°	87.2	91.1	96.4	97.0	97.0
77.5°	58.2	65.2	71.0	71.2	71.1
80°	41.6	49.5	54.8	56.0	55.4
82.5°	28.2	36.5	41.0	42.1	41.6
85°	12.7	19.5	23.1	23.7	23.1
87.5°	3.7	7.8	9.2	9.2	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)