

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: P562802

Luminaire Tested: **SQ4-PC3-0U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562802
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-840-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

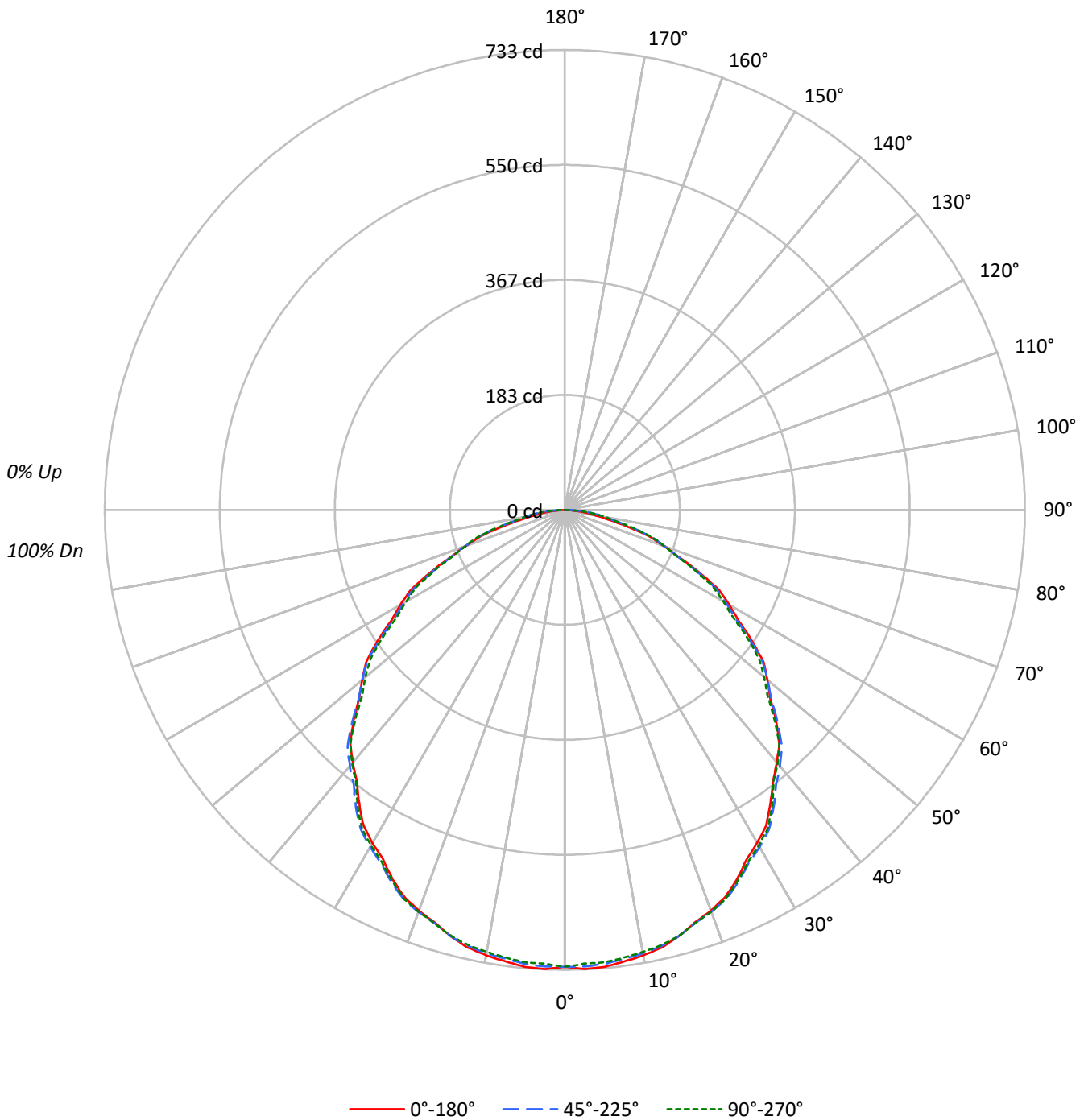
Lumens per Lamp: N/A
Luminaire Lumens: 1987.8 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	6719	6719	6719
5°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6660	6638
30°	6531	6609	6581
35°	6433	6533	6486
40°	6327	6417	6352
45°	6212	6256	6160
50°	6050	6050	5952
55°	5858	5781	5696
60°	5574	5464	5375
65°	5152	5050	5006
70°	4510	4548	4529
75°	3629	4014	4039
80°	2582	3406	3438
85°	1567	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.5
10°-20°	197.8	10.0
20°-30°	299.6	15.1
30°-40°	359.1	18.1
40°-50°	366.2	18.4
50°-60°	319.7	16.1
60°-70°	228.8	11.5
70°-80°	117.9	5.9
80°-90°	29.8	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°	566.3	28.5
0°-40°	925.4	46.6
0°-60°	1611.3	81.1
0°-90°	1987.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	731	724	726	724	724	69
15°	703	697	703	703	703	198
25°	649	645	654	652	652	299
35°	571	570	580	576	576	357
45°	476	475	480	473	472	366
55°	364	360	359	354	354	325
65°	236	231	231	229	229	233
75°	102	106	113	113	113	110
85°	15	23	27	28	27	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	732.7	726.3	728.3	726.7	724.0
5°	731.0	723.8	726.3	724.3	723.6
7.5°	725.8	718.5	721.9	720.5	719.8
10°	720.9	713.7	717.5	716.2	715.5
12.5°	714.4	707.7	712.1	710.8	710.7
15°	703.4	697.4	703.4	703.4	702.7
17.5°	689.5	684.1	690.4	690.8	690.4
20°	679.8	673.8	681.8	681.1	681.8
22.5°	667.9	663.0	671.6	669.8	670.5
25°	649.4	644.8	654.2	652.1	652.1
27.5°	627.6	624.3	634.5	632.3	632.3
30°	613.0	609.7	620.4	617.7	617.7
32.5°	596.8	594.6	604.8	601.6	601.6
35°	571.2	569.9	580.0	575.9	575.9
37.5°	544.8	543.6	552.7	547.8	546.3
40°	525.3	524.7	532.8	527.4	527.4
42.5°	505.9	505.3	512.3	505.8	505.8
45°	476.1	474.8	479.5	473.4	472.1
47.5°	443.6	442.3	445.2	438.6	437.9
50°	421.5	420.2	421.5	415.4	414.7
52.5°	398.8	396.5	396.7	390.6	390.5
55°	364.2	359.6	359.4	354.1	354.1
57.5°	327.5	321.4	322.0	317.4	316.7
60°	302.1	295.5	296.1	292.0	291.3
62.5°	277.3	269.7	271.2	266.6	266.5
65°	236.0	230.8	231.3	229.3	229.3
67.5°	196.4	191.5	195.0	193.4	193.3
70°	167.2	164.0	168.6	168.6	167.9
72.5°	140.3	140.1	145.9	145.9	146.3
75°	101.8	106.4	112.6	113.3	113.3
77.5°	68.0	76.2	82.9	83.2	83.1
80°	48.6	57.8	64.1	65.4	64.7
82.5°	32.9	42.7	47.9	49.2	48.6
85°	14.8	22.7	27.0	27.6	27.0
87.5°	4.3	9.1	10.8	10.8	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)