

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: P562806

Luminaire Tested: **SQ4-PC3-0U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562806
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

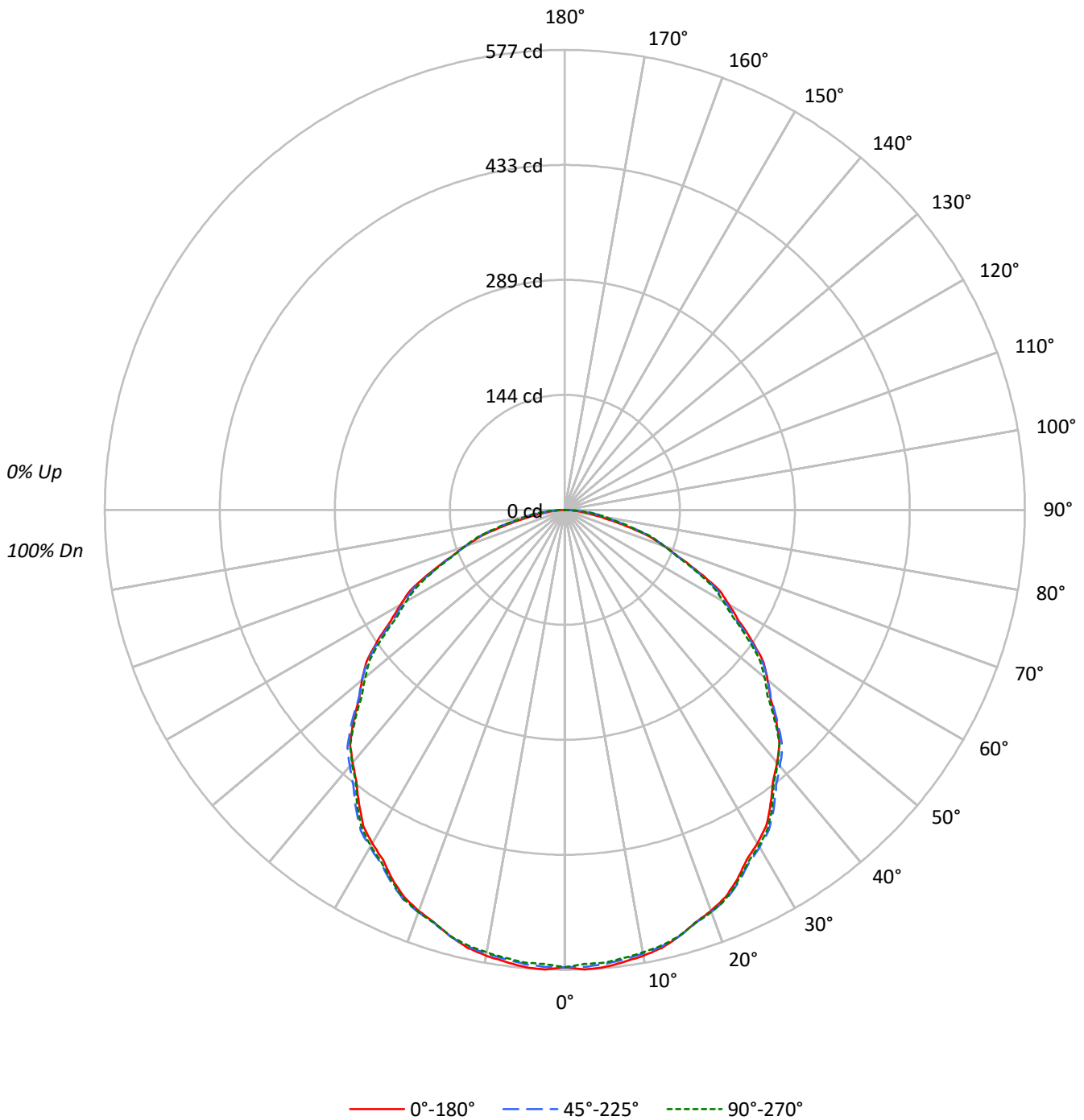
Lumens per Lamp: N/A
Luminaire Lumens: 1566.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5273	5273
25°	5208	5247	5230
30°	5146	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4767	4767	4689
55°	4615	4555	4486
60°	4392	4303	4235
65°	4061	3978	3943
70°	3555	3582	3569
75°	2859	3162	3183
80°	2035	2683	2710
85°	1239	2255	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.5
10°-20°	155.8	10.0
20°-30°	236.0	15.1
30°-40°	282.9	18.1
40°-50°	288.5	18.4
50°-60°	251.8	16.1
60°-70°	180.3	11.5
70°-80°	92.9	5.9
80°-90°	23.5	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°	446.1	28.5
0°-40°	729.1	46.6
0°-60°	1269.4	81.1
0°-90°	1566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	576	570	572	571	570	55
15°	554	550	554	554	554	156
25°	512	508	515	514	514	235
35°	450	449	457	454	454	281
45°	375	374	378	373	372	289
55°	287	283	283	279	279	256
65°	186	182	182	181	181	184
75°	80	84	89	89	89	87
85°	12	18	21	22	21	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.8	573.8	573.8	573.8	573.8
2.5°	577.2	572.2	573.8	572.5	570.4
5°	575.9	570.2	572.2	570.6	570.1
7.5°	571.8	566.1	568.7	567.6	567.1
10°	568.0	562.2	565.3	564.2	563.7
12.5°	562.9	557.6	561.1	560.0	559.9
15°	554.1	549.5	554.1	554.1	553.6
17.5°	543.2	538.9	543.9	544.3	543.9
20°	535.5	530.9	537.1	536.6	537.1
22.5°	526.2	522.4	529.1	527.7	528.2
25°	511.6	508.0	515.4	513.8	513.8
27.5°	494.4	491.8	499.8	498.1	498.1
30°	483.0	480.4	488.8	486.7	486.7
32.5°	470.2	468.4	476.5	473.9	473.9
35°	450.0	449.0	456.9	453.7	453.7
37.5°	429.2	428.2	435.5	431.6	430.4
40°	413.9	413.4	419.7	415.5	415.5
42.5°	398.6	398.1	403.6	398.5	398.5
45°	375.1	374.1	377.8	372.9	371.9
47.5°	349.5	348.4	350.8	345.5	345.0
50°	332.1	331.0	332.1	327.3	326.7
52.5°	314.2	312.3	312.5	307.7	307.6
55°	286.9	283.3	283.2	278.9	278.9
57.5°	258.0	253.2	253.6	250.0	249.5
60°	238.0	232.8	233.2	230.0	229.5
62.5°	218.5	212.4	213.7	210.1	210.0
65°	186.0	181.8	182.2	180.6	180.6
67.5°	154.7	150.9	153.7	152.4	152.3
70°	131.8	129.2	132.8	132.8	132.3
72.5°	110.5	110.4	115.0	115.0	115.3
75°	80.2	83.9	88.7	89.3	89.3
77.5°	53.6	60.0	65.3	65.6	65.5
80°	38.3	45.5	50.5	51.5	51.0
82.5°	25.9	33.6	37.7	38.8	38.3
85°	11.7	17.9	21.3	21.8	21.3
87.5°	3.4	7.1	8.5	8.5	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)