

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: P562853

Luminaire Tested: **SQ4-PC3-0U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562853
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-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

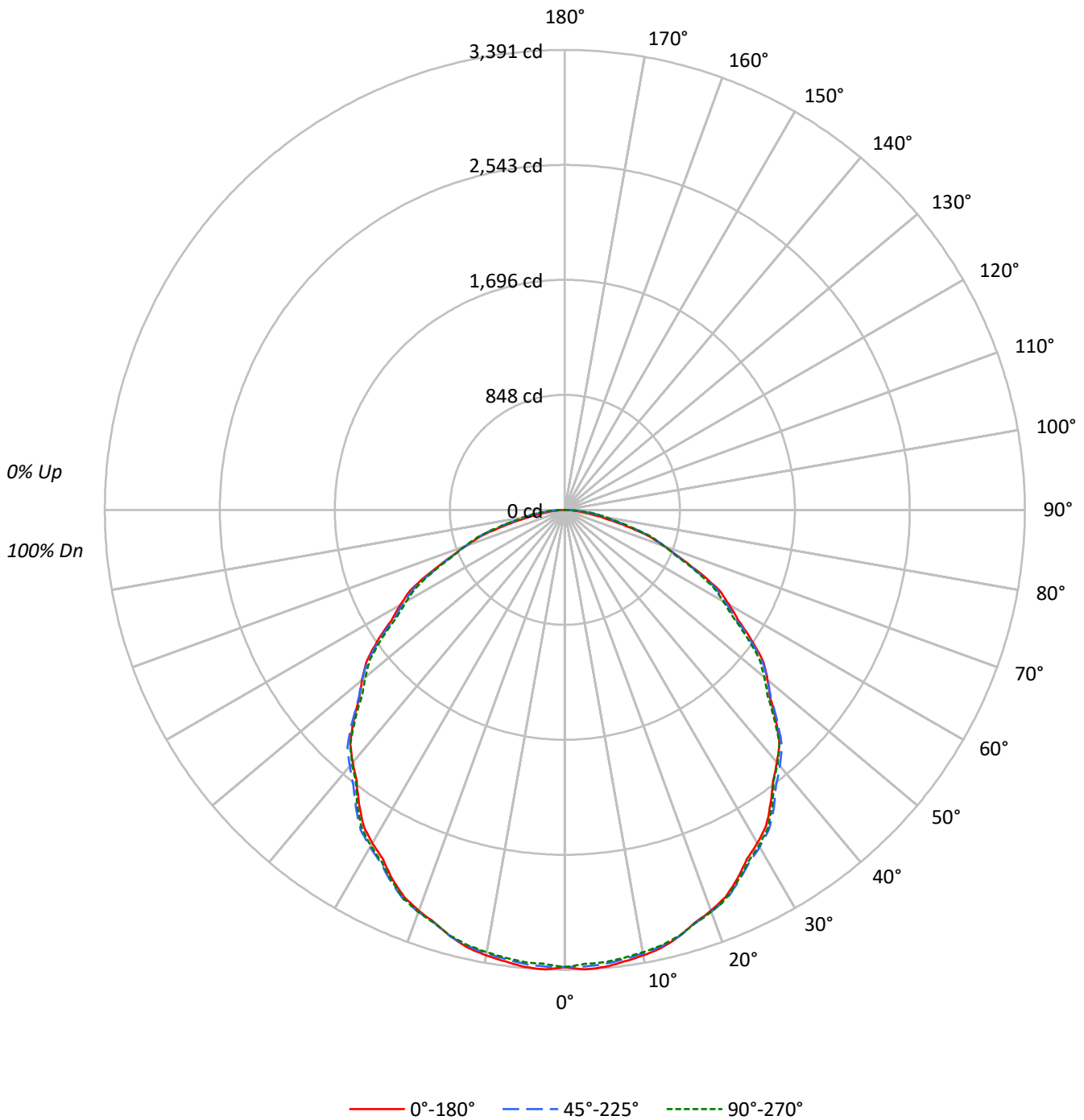
Lumens per Lamp: N/A
Luminaire Lumens: 9200.4 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 108.2
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°	10367	10367	10367
5°	10446	10378	10340
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9799
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8786
60°	8601	8428	8294
65°	7950	7791	7723
70°	6961	7017	6988
75°	5600	6194	6231
80°	3980	5251	5308
85°	2424	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	3.5
10°-20°	915.6	10.0
20°-30°	1386.5	15.1
30°-40°	1662.2	18.1
40°-50°	1694.9	18.4
50°-60°	1479.5	16.1
60°-70°	1059.2	11.5
70°-80°	545.6	5.9
80°-90°	138.0	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°	2621.1	28.5
0°-40°	4283.3	46.6
0°-60°	7457.7	81.1
0°-90°	9200.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9200.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3371	3371	3371	3371	3371	
5°	3384	3350	3362	3352	3349	321
15°	3256	3228	3256	3256	3252	918
25°	3006	2985	3028	3018	3018	1383
35°	2644	2638	2684	2666	2666	1653
45°	2204	2198	2219	2191	2185	1696
55°	1686	1664	1664	1639	1639	1503
65°	1092	1068	1071	1061	1061	1080
75°	471	493	521	524	524	509
85°	69	105	125	128	125	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3371.1	3371.1	3371.1	3371.1	3371.1
2.5°	3391.1	3361.8	3371.1	3363.4	3351.1
5°	3383.6	3350.0	3361.8	3352.3	3349.3
7.5°	3359.3	3325.7	3341.2	3334.8	3331.8
10°	3336.8	3303.2	3321.2	3314.9	3311.8
12.5°	3306.8	3275.7	3296.2	3290.0	3289.3
15°	3255.6	3228.2	3255.6	3255.6	3252.5
17.5°	3191.3	3166.3	3195.7	3197.5	3195.7
20°	3146.4	3118.9	3155.7	3152.7	3155.7
22.5°	3091.4	3068.9	3108.3	3100.3	3103.3
25°	3005.9	2984.6	3027.8	3018.4	3018.4
27.5°	2904.8	2889.5	2936.6	2926.6	2926.6
30°	2837.4	2822.1	2871.7	2859.2	2859.2
32.5°	2762.4	2752.1	2799.3	2784.3	2784.3
35°	2643.8	2637.7	2684.4	2665.7	2665.7
37.5°	2521.5	2516.0	2558.3	2535.7	2528.3
40°	2431.6	2428.5	2465.9	2440.9	2440.9
42.5°	2341.7	2338.6	2371.0	2341.1	2341.1
45°	2203.7	2197.6	2219.3	2191.1	2185.0
47.5°	2053.3	2047.2	2060.8	2030.1	2027.0
50°	1950.9	1944.8	1950.9	1922.7	1919.7
52.5°	1846.0	1835.0	1836.0	1807.9	1807.3
55°	1685.6	1664.2	1663.7	1638.7	1638.7
57.5°	1515.8	1487.7	1490.2	1468.9	1465.8
60°	1398.4	1367.9	1370.3	1351.5	1348.4
62.5°	1283.5	1248.1	1255.4	1234.2	1233.6
65°	1092.5	1068.1	1070.6	1061.3	1061.3
67.5°	909.0	886.4	902.7	895.2	894.6
70°	774.1	758.8	780.4	780.3	777.2
72.5°	649.3	648.6	675.5	675.5	677.3
75°	471.3	492.7	521.3	524.4	524.4
77.5°	314.6	352.5	383.9	385.2	384.6
80°	224.7	267.5	296.5	302.7	299.7
82.5°	152.3	197.5	221.6	227.8	224.7
85°	68.7	105.3	124.9	127.9	124.9
87.5°	20.0	42.0	49.9	49.8	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)