

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: P562857

Luminaire Tested: **SQ4-PC3-0U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562857
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-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

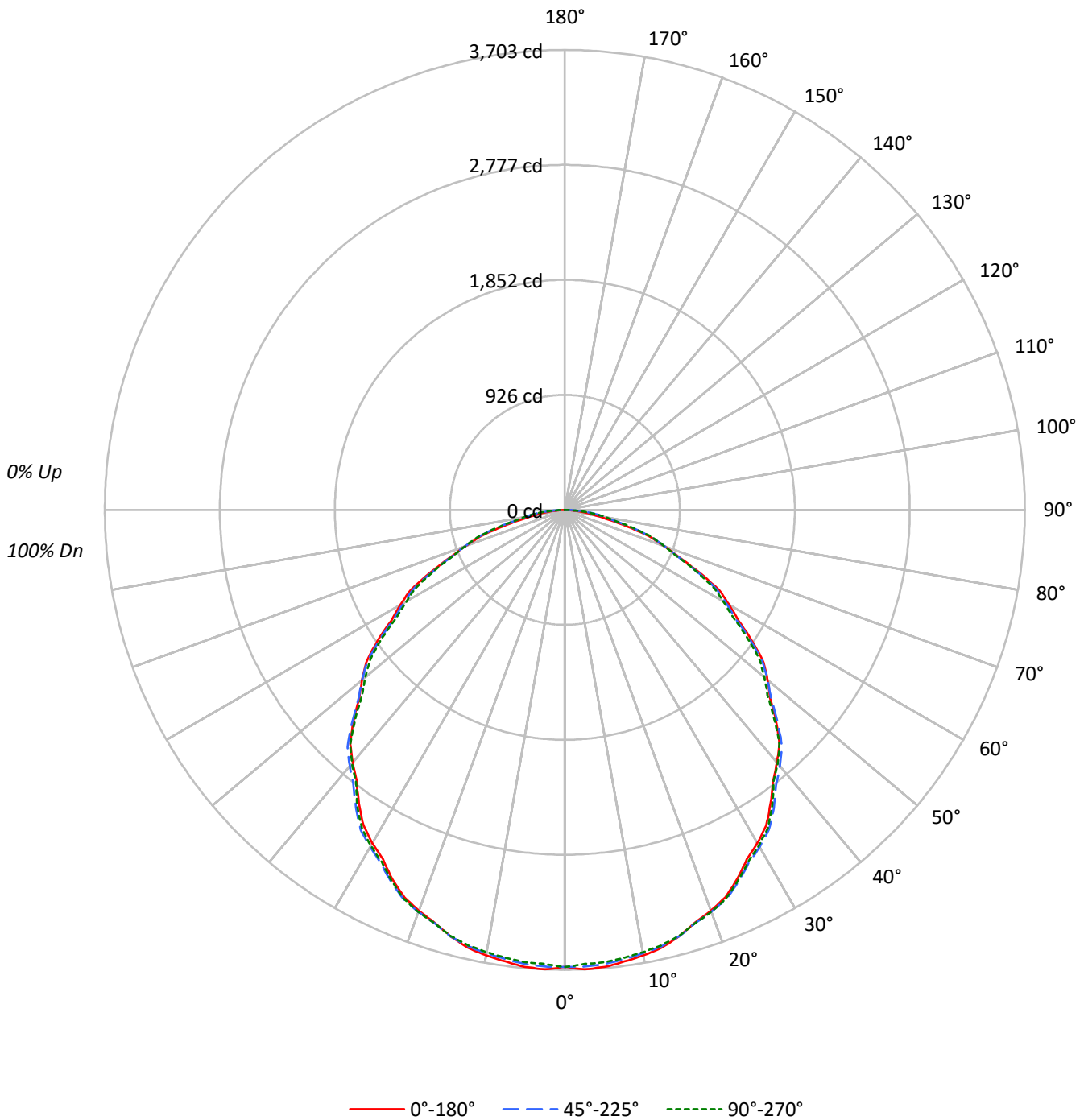
Lumens per Lamp: N/A
Luminaire Lumens: 10046.1 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11219	11184
30°	11002	11135	11087
35°	10838	11004	10928
40°	10659	10810	10700
45°	10466	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7601	7662	7631
75°	6116	6763	6804
80°	4346	5735	5795
85°	2646	4810	4810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	3.5
10°-20°	999.7	10.0
20°-30°	1513.9	15.1
30°-40°	1815.0	18.1
40°-50°	1850.7	18.4
50°-60°	1615.5	16.1
60°-70°	1156.6	11.5
70°-80°	595.7	5.9
80°-90°	150.6	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°	2862.0	28.5
0°-40°	4677.0	46.6
0°-60°	8143.2	81.1
0°-90°	10046.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10046.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3681	3681	3681	3681	3681	
5°	3695	3658	3671	3660	3657	351
15°	3555	3525	3555	3555	3551	1002
25°	3282	3259	3306	3296	3296	1511
35°	2887	2880	2931	2911	2911	1805
45°	2406	2400	2423	2392	2386	1852
55°	1840	1817	1817	1789	1789	1641
65°	1193	1166	1169	1159	1159	1180
75°	515	538	569	573	573	556
85°	75	115	136	140	136	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3681.0	3681.0	3681.0	3681.0	3681.0
2.5°	3702.8	3670.8	3681.0	3672.5	3659.2
5°	3694.6	3657.9	3670.7	3660.4	3657.1
7.5°	3668.0	3631.4	3648.2	3641.4	3638.0
10°	3643.5	3606.8	3626.4	3619.5	3616.2
12.5°	3610.8	3576.8	3599.2	3592.3	3591.7
15°	3554.9	3524.9	3554.9	3554.8	3551.4
17.5°	3484.6	3457.3	3489.4	3491.4	3489.4
20°	3435.6	3405.6	3445.8	3442.5	3445.8
22.5°	3375.6	3350.9	3394.0	3385.2	3388.5
25°	3282.2	3258.9	3306.1	3295.8	3295.8
27.5°	3171.8	3155.1	3206.5	3195.6	3195.6
30°	3098.1	3081.5	3135.6	3122.0	3122.0
32.5°	3016.3	3005.0	3056.6	3040.2	3040.2
35°	2886.8	2880.2	2931.1	2910.7	2910.7
37.5°	2753.2	2747.2	2793.4	2768.7	2760.7
40°	2655.1	2651.7	2692.6	2665.3	2665.3
42.5°	2556.9	2553.6	2588.9	2556.2	2556.2
45°	2406.3	2399.6	2423.3	2392.5	2385.8
47.5°	2242.0	2235.3	2250.2	2216.7	2213.3
50°	2130.2	2123.5	2130.2	2099.4	2096.1
52.5°	2015.7	2003.7	2004.8	1974.1	1973.4
55°	1840.5	1817.2	1816.6	1789.4	1789.4
57.5°	1655.1	1624.4	1627.1	1603.9	1600.5
60°	1526.9	1493.6	1496.2	1475.7	1472.4
62.5°	1401.5	1362.8	1370.8	1347.6	1347.0
65°	1192.9	1166.2	1169.0	1158.8	1158.8
67.5°	992.5	967.8	985.7	977.5	976.8
70°	845.3	828.6	852.1	852.0	848.7
72.5°	708.9	708.3	737.6	737.6	739.6
75°	514.7	538.0	569.2	572.6	572.6
77.5°	343.6	384.9	419.2	420.6	419.9
80°	245.4	292.1	323.8	330.5	327.2
82.5°	166.3	215.6	242.0	248.7	245.4
85°	75.0	115.0	136.3	139.7	136.3
87.5°	21.8	45.8	54.5	54.4	49.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)