

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: P562569

Luminaire Tested: **SQ4-PC3-025U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562569
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

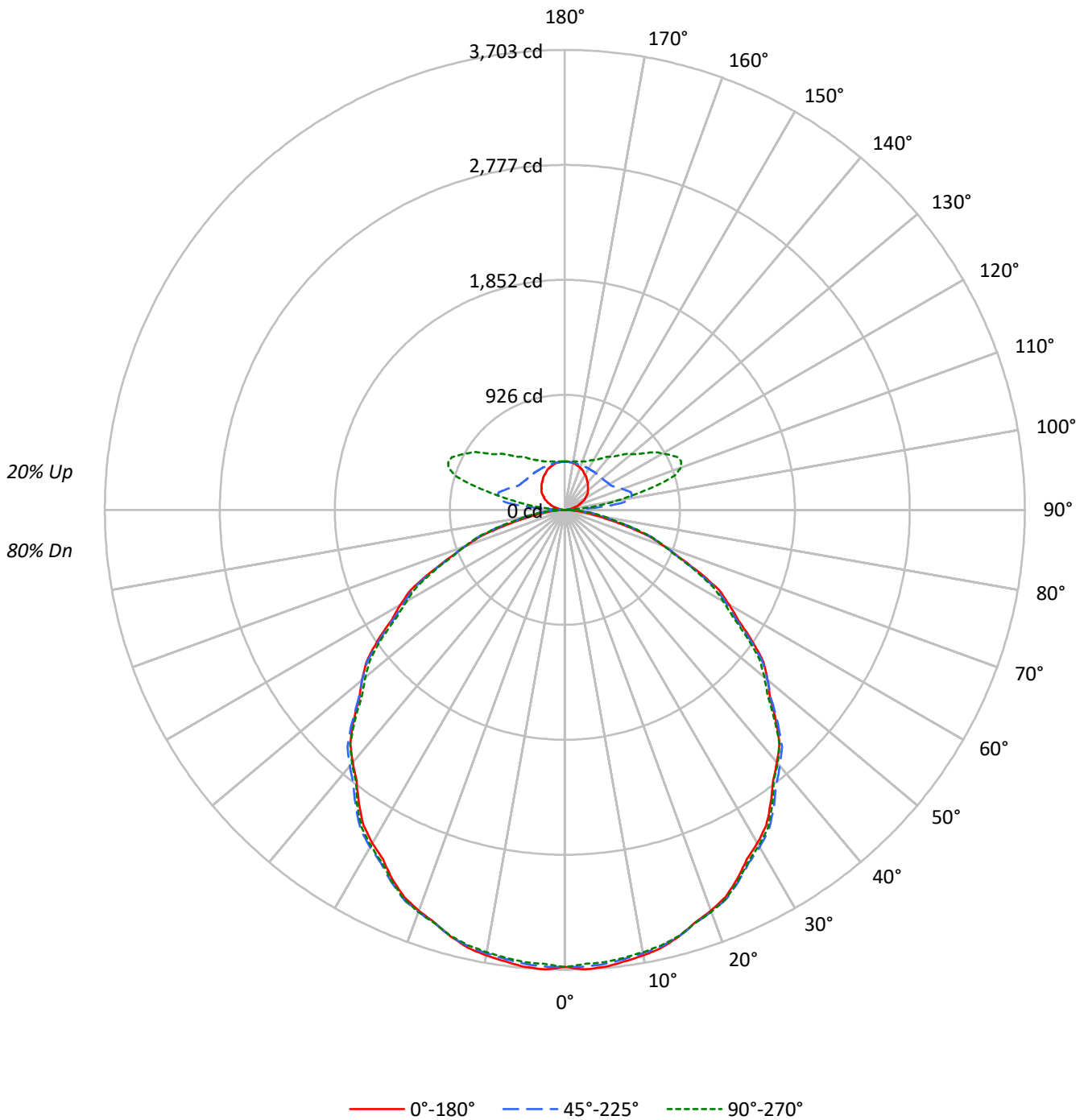
Lumens per Lamp: N/A
Luminaire Lumens: 12566.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 123.6
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

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	2.8
10°-20°	999.7	8.0
20°-30°	1513.9	12.0
30°-40°	1815.0	14.4
40°-50°	1850.7	14.7
50°-60°	1615.5	12.9
60°-70°	1156.6	9.2
70°-80°	595.7	4.7
80°-90°	152.7	1.2
90°-100°	189.3	1.5
100°-110°	497.7	4.0
110°-120°	516.1	4.1
120°-130°	414.0	3.3
130°-140°	324.8	2.6
140°-150°	249.3	2.0
150°-160°	179.6	1.4
160°-170°	109.9	0.9
170°-180°	37.1	0.3
0°-30°	2862.0	22.8
0°-40°	4677.0	37.2
0°-60°	8143.2	64.8
0°-90°	10048.2	80.0
90°-120°	1203.2	9.6
90°-150°	2191.3	17.4
90°-180°	2518.0	20.0
0°-180°	12566.0	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	102
90°	2	7	20	10	10	5
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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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°	22.3	47.3	58.5	56.4	51.1
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)