

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: P562726

Luminaire Tested: **SQ4-PC3-075U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562726
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

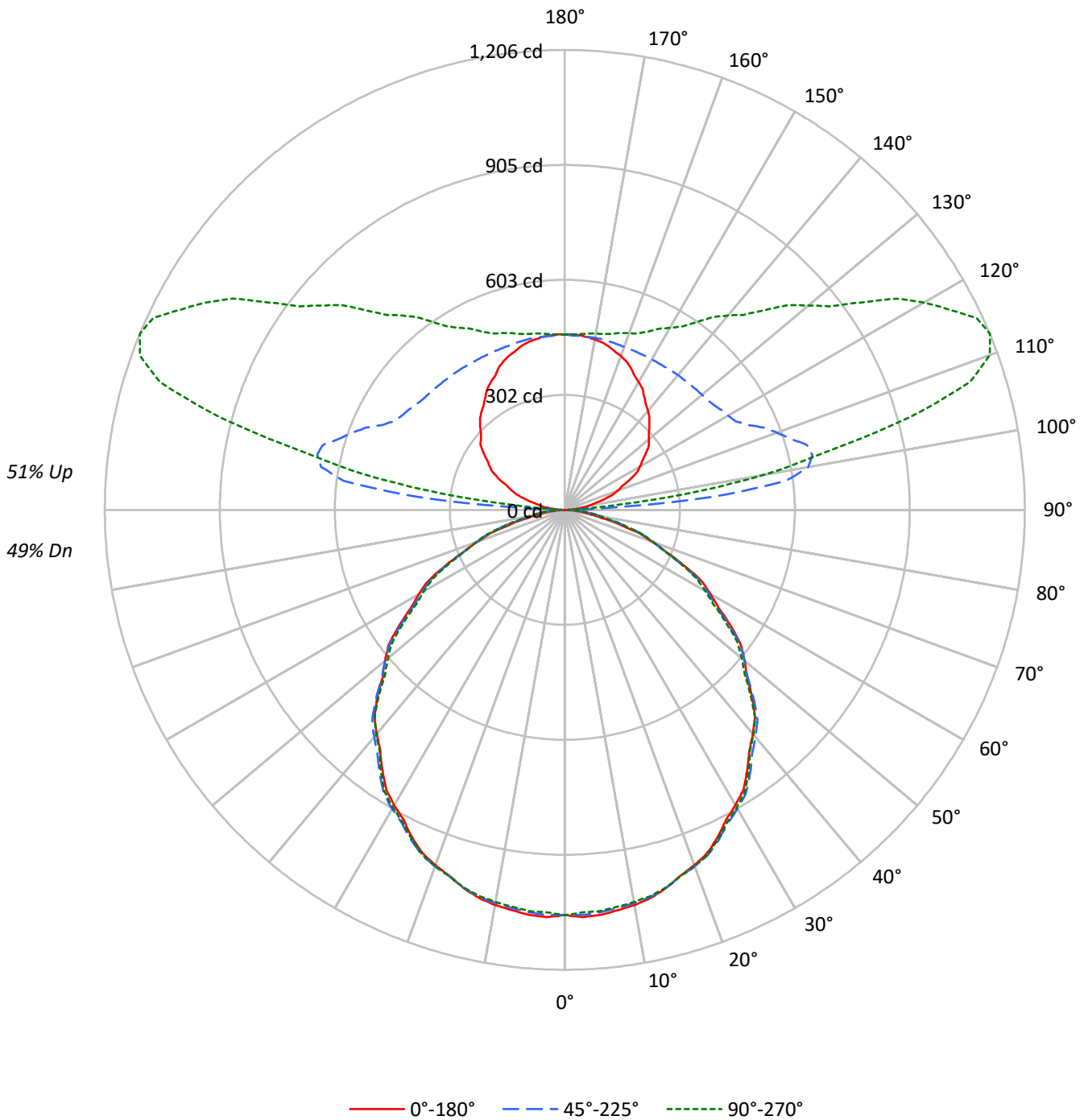
Lumens per Lamp: N/A
Luminaire Lumens: 5895.5 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9815	9779
10°	9856	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9648	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9064	9130	8987
50°	8827	8827	8687
55°	8548	8437	8310
60°	8136	7971	7844
65°	7519	7368	7305
70°	6582	6636	6609
75°	5297	5857	5893
80°	3767	4968	5021
85°	2287	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	1.7
10°-20°	288.6	4.9
20°-30°	437.1	7.4
30°-40°	524.0	8.9
40°-50°	534.3	9.1
50°-60°	466.4	7.9
60°-70°	333.9	5.7
70°-80°	172.0	2.9
80°-90°	44.7	0.8
90°-100°	216.8	3.7
100°-110°	596.3	10.1
110°-120°	615.5	10.4
120°-130°	493.1	8.4
130°-140°	387.3	6.6
140°-150°	296.8	5.0
150°-160°	213.4	3.6
160°-170°	130.5	2.2
170°-180°	44.0	0.7
0°-30°	826.3	14.0
0°-40°	1350.4	22.9
0°-60°	2351.1	39.9
0°-90°	2901.7	49.2
90°-120°	1428.6	24.2
90°-150°	2605.9	44.2
90°-180°	2994.0	50.8
0°-180°	5895.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1067	1056	1060	1057	1056	101
15°	1026	1018	1026	1026	1025	289
25°	948	941	954	952	952	436
35°	834	832	846	840	840	521
45°	695	693	700	691	689	535
55°	531	525	524	517	517	474
65°	344	337	338	335	335	341
75°	149	155	164	165	165	161
85°	22	33	39	40	39	29
90°	1	4	7	9	9	3
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.8	1062.8	1062.8	1062.8	1062.8
2.5°	1069.1	1059.8	1062.8	1060.3	1056.5
5°	1066.7	1056.1	1059.8	1056.9	1055.9
7.5°	1059.0	1048.5	1053.3	1051.4	1050.4
10°	1052.0	1041.4	1047.0	1045.1	1044.1
12.5°	1042.5	1032.7	1039.2	1037.2	1037.0
15°	1026.4	1017.7	1026.4	1026.4	1025.4
17.5°	1006.1	998.2	1007.5	1008.1	1007.5
20°	991.9	983.3	994.9	993.9	994.9
22.5°	974.6	967.5	979.9	977.4	978.4
25°	947.7	940.9	954.5	951.6	951.6
27.5°	915.8	911.0	925.8	922.7	922.7
30°	894.5	889.7	905.3	901.4	901.4
32.5°	870.9	867.6	882.5	877.8	877.8
35°	833.5	831.6	846.3	840.4	840.4
37.5°	794.9	793.2	806.5	799.4	797.1
40°	766.6	765.6	777.4	769.5	769.5
42.5°	738.2	737.3	747.5	738.0	738.0
45°	694.7	692.8	699.7	690.8	688.8
47.5°	647.3	645.4	649.7	640.0	639.0
50°	615.0	613.1	615.0	606.2	605.2
52.5°	582.0	578.5	578.8	570.0	569.8
55°	531.4	524.7	524.5	516.6	516.6
57.5°	477.9	469.0	469.8	463.1	462.1
60°	440.9	431.2	432.0	426.1	425.1
62.5°	404.6	393.5	395.8	389.1	388.9
65°	344.4	336.7	337.5	334.6	334.6
67.5°	286.6	279.4	284.6	282.2	282.0
70°	244.0	239.2	246.0	246.0	245.0
72.5°	204.7	204.5	213.0	213.0	213.5
75°	148.6	155.3	164.3	165.3	165.3
77.5°	99.2	111.1	121.0	121.4	121.2
80°	70.9	84.3	93.5	95.4	94.5
82.5°	48.0	62.3	69.9	71.8	70.9
85°	21.6	33.2	39.4	40.3	39.4
87.5°	6.5	14.0	17.1	17.5	15.9
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)