

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: P562630

Luminaire Tested: **SQ4-PC3-050U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562630
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

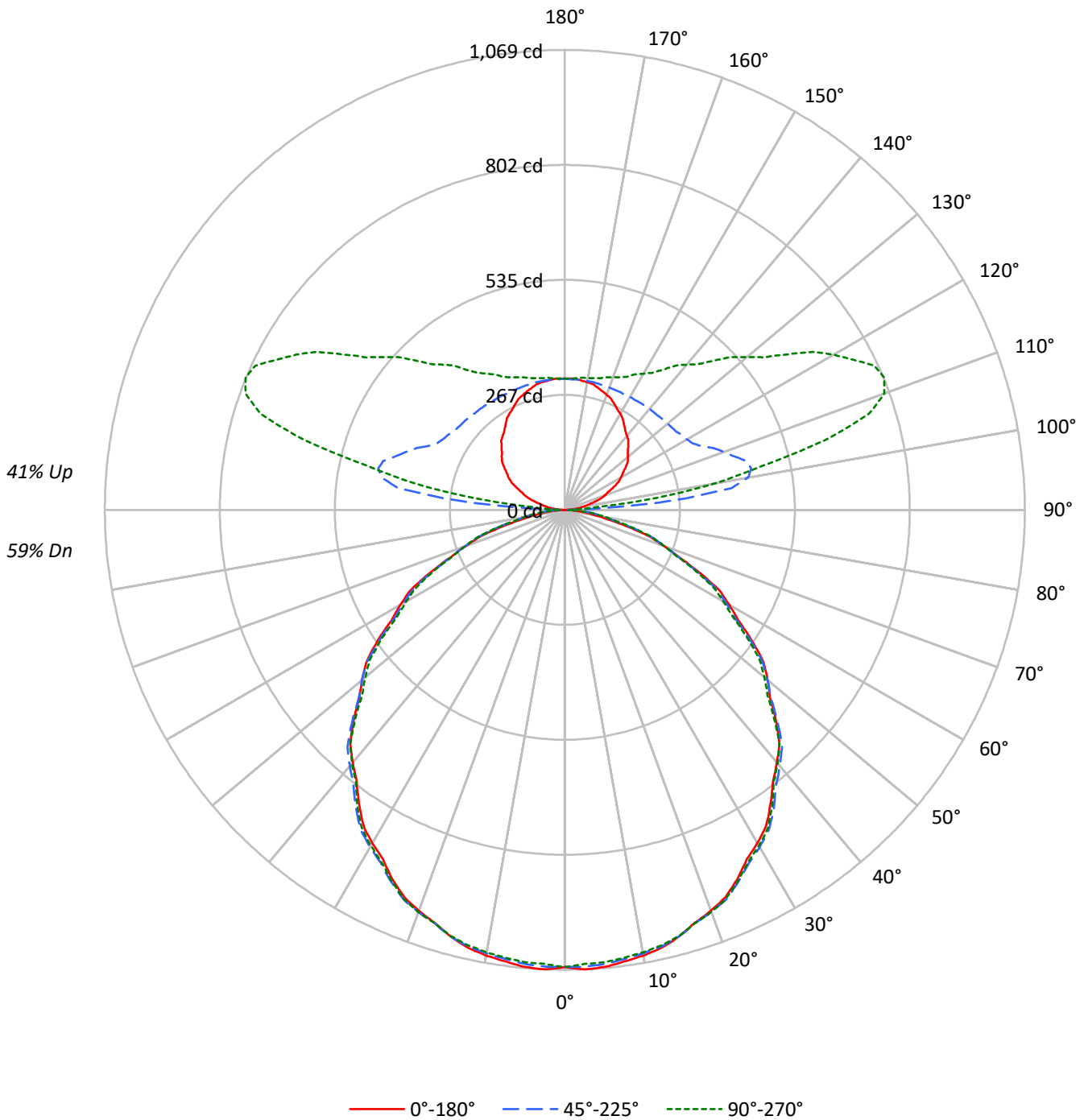
Lumens per Lamp: N/A
Luminaire Lumens: 4893.6 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

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	2.1
10°-20°	288.6	5.9
20°-30°	437.1	8.9
30°-40°	524.0	10.7
40°-50°	534.3	10.9
50°-60°	466.4	9.5
60°-70°	333.9	6.8
70°-80°	172.0	3.5
80°-90°	44.7	0.9
90°-100°	146.4	3.0
100°-110°	397.8	8.1
110°-120°	409.0	8.4
120°-130°	327.0	6.7
130°-140°	257.0	5.3
140°-150°	197.0	4.0
150°-160°	141.7	2.9
160°-170°	86.7	1.8
170°-180°	29.2	0.6
0°-30°	826.3	16.9
0°-40°	1350.4	27.6
0°-60°	2351.1	48.0
0°-90°	2901.7	59.3
90°-120°	953.3	19.5
90°-150°	1734.4	35.4
90°-180°	1992.0	40.7
0°-180°	4893.6	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	2
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	



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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	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)