

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: P561531

Luminaire Tested: **SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561531
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

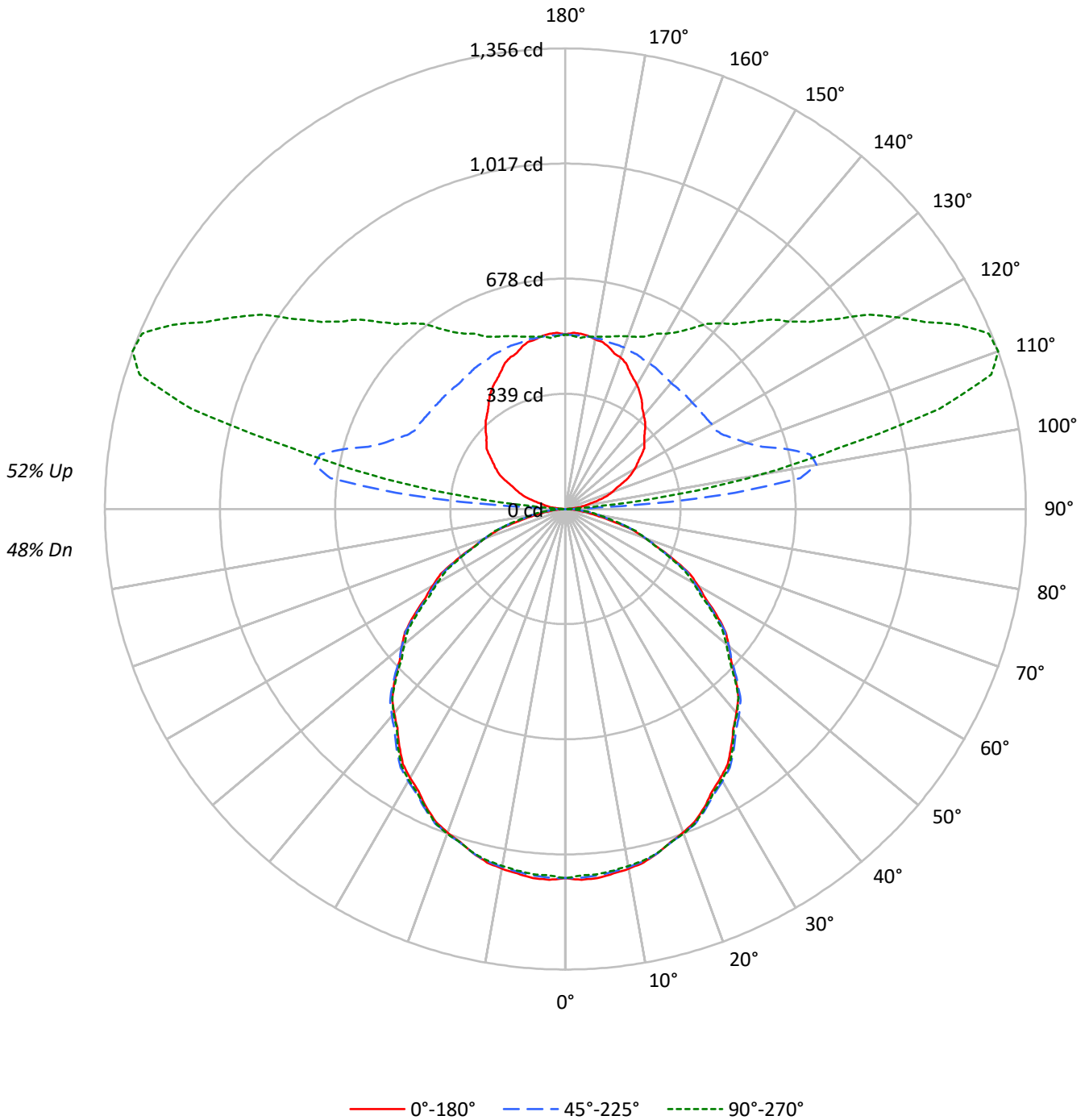
Lumens per Lamp: N/A
Luminaire Lumens: 6156.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.6
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10025	10025	10025
5°	10101	10036	9999
10°	10076	10029	10001
15°	10024	10024	10014
20°	9958	9987	9987
25°	9863	9935	9904
30°	9744	9861	9818
35°	9598	9746	9677
40°	9440	9573	9476
45°	9268	9334	9190
50°	9025	9025	8882
55°	8739	8627	8496
60°	8316	8150	8019
65°	7687	7534	7468
70°	6730	6784	6757
75°	5415	5989	6024
80°	3847	5079	5133
85°	2339	4256	4256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	1.7
10°-20°	295.1	4.8
20°-30°	446.9	7.3
30°-40°	535.8	8.7
40°-50°	546.3	8.9
50°-60°	476.9	7.7
60°-70°	341.4	5.5
70°-80°	175.8	2.9
80°-90°	44.5	0.7
90°-100°	234.1	3.8
100°-110°	666.0	10.8
110°-120°	638.1	10.4
120°-130°	505.0	8.2
130°-140°	405.4	6.6
140°-150°	317.4	5.2
150°-160°	232.2	3.8
160°-170°	143.8	2.3
170°-180°	48.8	0.8
0°-30°	844.9	13.7
0°-40°	1380.6	22.4
0°-60°	2403.8	39.0
0°-90°	2965.6	48.2
90°-120°	1538.2	25.0
90°-150°	2766.0	44.9
90°-180°	3191.0	51.8
0°-180°	6156.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1091	1080	1084	1081	1080	104
15°	1049	1040	1049	1049	1048	296
25°	969	962	976	973	973	446
35°	852	850	865	859	859	533
45°	710	708	715	706	704	547
55°	543	536	536	528	528	484
65°	352	344	345	342	342	348
75°	152	159	168	169	169	164
85°	22	34	40	41	40	30
90°	0	0	0	0	0	2
95°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1093.0	1083.6	1086.6	1084.1	1080.2
5°	1090.6	1079.8	1083.6	1080.6	1079.6
7.5°	1082.8	1072.0	1077.0	1074.9	1073.9
10°	1075.5	1064.7	1070.5	1068.5	1067.5
12.5°	1065.9	1055.8	1062.5	1060.4	1060.2
15°	1049.4	1040.5	1049.4	1049.4	1048.4
17.5°	1028.7	1020.6	1030.1	1030.7	1030.1
20°	1014.2	1005.3	1017.2	1016.2	1017.2
22.5°	996.5	989.2	1001.9	999.3	1000.3
25°	968.9	962.0	975.9	972.9	972.9
27.5°	936.3	931.4	946.6	943.3	943.3
30°	914.6	909.6	925.6	921.6	921.6
32.5°	890.4	887.1	902.3	897.5	897.5
35°	852.2	850.2	865.3	859.2	859.2
37.5°	812.7	811.0	824.6	817.3	815.0
40°	783.8	782.8	794.8	786.8	786.8
42.5°	754.8	753.8	764.2	754.6	754.6
45°	710.3	708.4	715.4	706.3	704.3
47.5°	661.8	659.9	664.2	654.4	653.4
50°	628.8	626.9	628.8	619.7	618.8
52.5°	595.0	591.5	591.8	582.7	582.5
55°	543.3	536.4	536.3	528.2	528.2
57.5°	488.6	479.5	480.3	473.5	472.5
60°	450.7	440.9	441.7	435.6	434.6
62.5°	413.7	402.3	404.7	397.8	397.6
65°	352.1	344.3	345.1	342.1	342.1
67.5°	293.0	285.7	291.0	288.6	288.4
70°	249.5	244.6	251.5	251.5	250.5
72.5°	209.3	209.1	217.7	217.7	218.3
75°	151.9	158.8	168.0	169.0	169.0
77.5°	101.4	113.6	123.8	124.2	124.0
80°	72.4	86.2	95.6	97.6	96.6
82.5°	49.1	63.7	71.4	73.4	72.4
85°	22.1	33.9	40.2	41.2	40.2
87.5°	6.4	13.5	16.1	16.1	14.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)