

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: P562616

Luminaire Tested: **SQ4-PC3-050U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562616
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-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

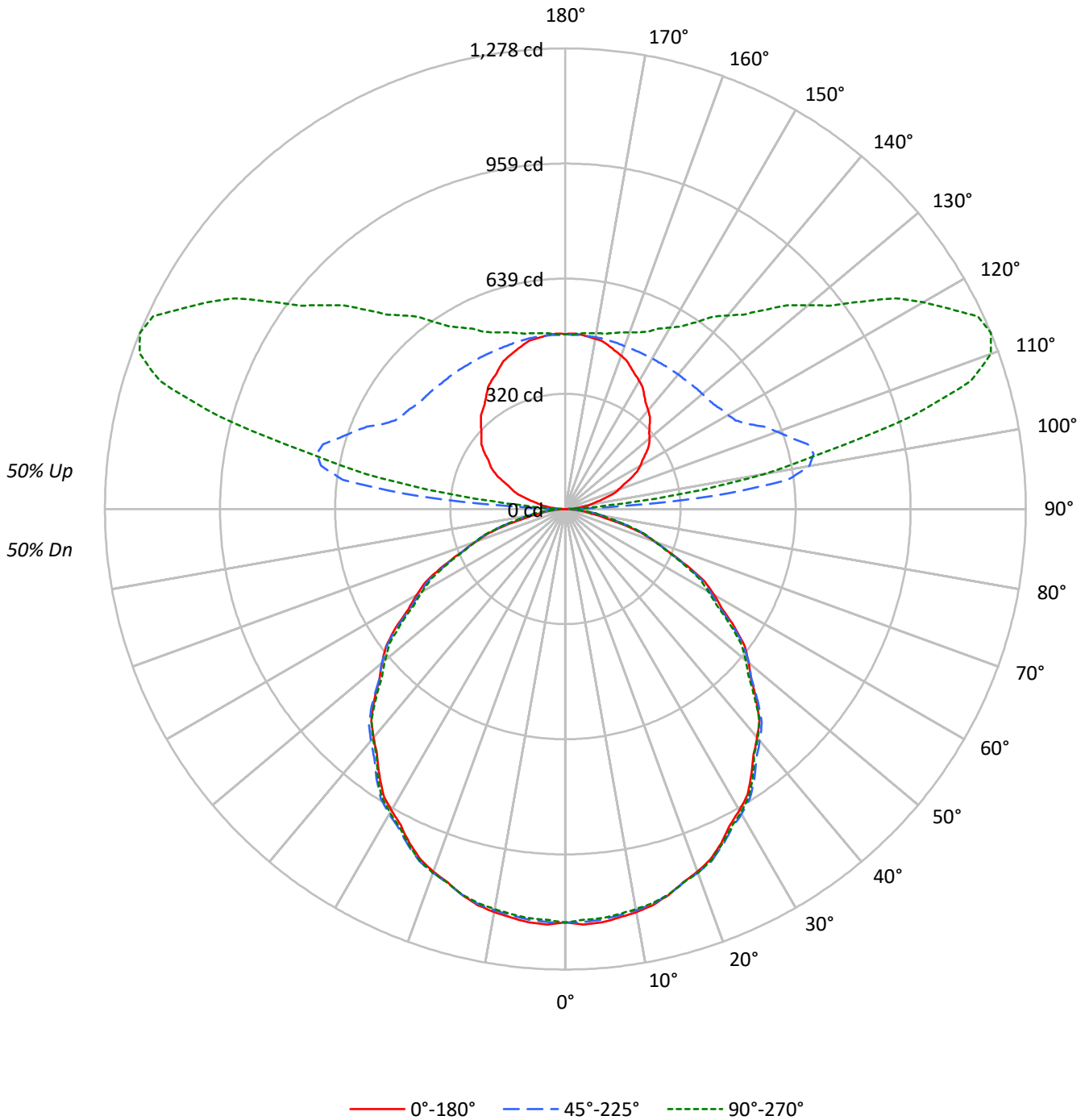
Lumens per Lamp: N/A
Luminaire Lumens: 6304.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	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	22	19	22	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°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5111
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3569
75°	2861	3164	3182
80°	2032	2680	2710
85°	1239	2249	2249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.7
10°-20°	311.7	4.9
20°-30°	472.0	7.5
30°-40°	565.9	9.0
40°-50°	577.0	9.2
50°-60°	503.7	8.0
60°-70°	360.6	5.7
70°-80°	185.7	2.9
80°-90°	48.8	0.8
90°-100°	233.1	3.7
100°-110°	633.2	10.0
110°-120°	651.0	10.3
120°-130°	520.5	8.3
130°-140°	409.0	6.5
140°-150°	313.6	5.0
150°-160°	225.5	3.6
160°-170°	137.9	2.2
170°-180°	46.5	0.7
0°-30°	892.3	14.2
0°-40°	1458.1	23.1
0°-60°	2538.8	40.3
0°-90°	3133.9	49.7
90°-120°	1517.2	24.1
90°-150°	2760.3	43.8
90°-180°	3170.0	50.3
0°-180°	6304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1140	1144	1141	1140	109
15°	1108	1099	1108	1108	1107	312
25°	1023	1016	1031	1028	1028	471
35°	900	898	914	908	908	563
45°	750	748	756	746	744	577
55°	574	566	566	558	558	511
65°	372	364	364	361	361	368
75°	160	168	178	178	178	173
85°	23	36	42	44	42	32
90°	2	6	11	14	14	3
95°	34	128	406	177	119	36
105°	112	175	696	1060	998	119
115°	200	243	557	1109	1263	197
125°	275	313	504	850	1002	245
135°	331	368	490	692	781	256
145°	382	410	484	588	632	240
155°	432	448	481	528	543	199
165°	468	474	482	503	504	132
175°	486	487	484	490	489	46
180°	486	486	486	486	486	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1154.4	1144.4	1147.6	1145.0	1140.8
5°	1151.9	1140.4	1144.4	1141.2	1140.2
7.5°	1143.6	1132.1	1137.4	1135.3	1134.2
10°	1135.9	1124.5	1130.6	1128.5	1127.4
12.5°	1125.7	1115.1	1122.1	1120.0	1119.8
15°	1108.3	1098.9	1108.3	1108.3	1107.2
17.5°	1086.4	1077.9	1087.9	1088.5	1087.9
20°	1071.1	1061.7	1074.3	1073.2	1074.3
22.5°	1052.4	1044.7	1058.1	1055.4	1056.4
25°	1023.3	1016.0	1030.7	1027.5	1027.5
27.5°	988.9	983.7	999.7	996.3	996.3
30°	965.9	960.7	977.6	973.3	973.3
32.5°	940.4	936.9	952.9	947.8	947.8
35°	900.0	897.9	913.8	907.5	907.5
37.5°	858.4	856.5	870.9	863.2	860.7
40°	827.8	826.7	839.5	831.0	831.0
42.5°	797.2	796.1	807.1	796.9	796.9
45°	750.2	748.1	755.5	745.9	743.8
47.5°	699.0	696.9	701.5	691.1	690.1
50°	664.1	662.0	664.1	654.5	653.5
52.5°	628.4	624.7	625.0	615.5	615.2
55°	573.8	566.5	566.4	557.9	557.9
57.5°	516.0	506.4	507.3	500.0	499.0
60°	476.0	465.7	466.5	460.1	459.0
62.5°	436.9	424.9	427.4	420.1	419.9
65°	371.9	363.6	364.5	361.3	361.3
67.5°	309.4	301.7	307.3	304.7	304.5
70°	263.5	258.3	265.6	265.6	264.6
72.5°	221.0	220.8	229.9	230.0	230.6
75°	160.5	167.7	177.5	178.5	178.5
77.5°	107.1	120.0	130.7	131.1	130.9
80°	76.5	91.1	100.9	103.0	102.0
82.5°	51.9	67.2	75.4	77.5	76.5
85°	23.4	35.8	42.5	43.5	42.5
87.5°	7.1	15.5	19.2	19.8	18.1
90°	1.6	6.1	10.9	14.1	14.1
92.5°	14.1	63.8	110.8	47.6	40.3
95°	34.3	127.5	405.9	176.7	118.7
97.5°	56.8	140.8	622.3	484.1	340.0
100°	71.8	149.7	688.5	697.9	563.6
102.5°	86.8	158.5	706.0	863.1	744.7
105°	112.4	175.0	696.3	1060.2	997.6
107.5°	138.9	194.2	656.0	1161.9	1179.3
110°	157.7	208.1	626.0	1182.0	1256.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.9	221.8	596.1	1165.3	1278.0
115°	199.8	242.6	557.3	1108.8	1263.0
117.5°	224.2	265.1	532.7	1028.7	1202.4
120°	240.4	280.1	521.4	975.0	1147.5
122.5°	254.2	293.8	513.9	921.1	1087.5
125°	274.8	312.9	504.3	849.6	1002.3
127.5°	293.2	331.0	499.0	795.4	926.4
130°	304.4	341.1	496.5	761.4	878.9
132.5°	315.7	352.3	494.0	732.4	836.5
135°	331.0	367.6	490.2	692.1	780.6
137.5°	347.5	380.8	488.3	656.5	730.9
140°	357.5	389.6	487.1	633.8	701.0
142.5°	367.5	397.1	485.8	616.1	672.2
145°	382.5	410.0	484.0	588.0	632.3
147.5°	399.4	422.9	482.4	565.9	600.7
150°	410.6	430.4	482.4	553.3	580.8
152.5°	419.3	436.7	481.2	541.9	564.5
155°	432.4	447.7	480.8	528.0	543.3
157.5°	445.3	457.2	480.8	518.6	530.2
160°	452.7	463.4	480.8	512.3	521.4
162.5°	460.2	468.5	482.1	507.2	513.9
165°	468.4	474.5	482.4	502.7	504.3
167.5°	476.8	479.8	484.0	497.4	498.6
170°	479.3	482.3	484.0	494.9	494.9
172.5°	481.8	483.6	484.0	492.4	492.4
175°	485.5	487.1	484.0	490.2	488.7
177.5°	486.8	486.8	483.0	488.0	485.5
180°	485.5	485.5	485.5	485.5	485.5

(END OF REPORT)