

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: P563960

Luminaire Tested: **SQ4-PR1-050U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563960
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

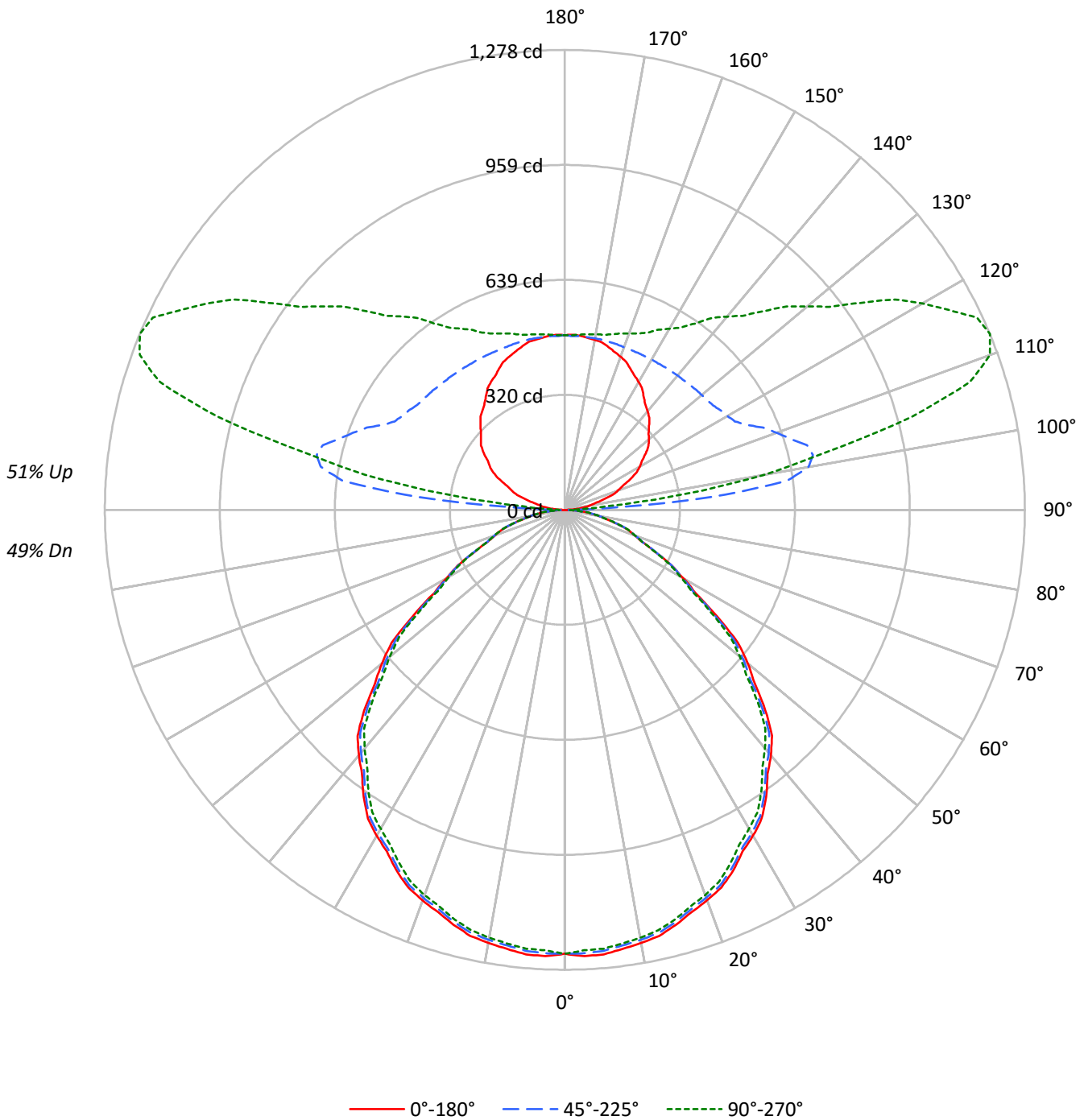
Lumens per Lamp: N/A
Luminaire Lumens: 6256.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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					
RC	80				70				50				30					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5668
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5631	5592	5528
30°	5570	5530	5451
35°	5487	5440	5362
40°	5363	5305	5209
45°	5143	5053	4950
50°	4759	4644	4553
55°	4153	4059	3974
60°	3499	3471	3402
65°	3027	3039	3016
70°	2780	2795	2795
75°	2670	2670	2690
80°	2513	2540	2513
85°	2027	2249	2249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	1.9
10°-20°	333.8	5.3
20°-30°	503.5	8.0
30°-40°	599.9	9.6
40°-50°	591.4	9.5
50°-60°	452.0	7.2
60°-70°	279.7	4.5
70°-80°	158.9	2.5
80°-90°	50.2	0.8
90°-100°	233.1	3.7
100°-110°	633.2	10.1
110°-120°	651.0	10.4
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°	953.9	15.2
0°-40°	1553.8	24.8
0°-60°	2597.2	41.5
0°-90°	3085.9	49.3
90°-120°	1517.2	24.3
90°-150°	2760.3	44.1
90°-180°	3170.0	50.7
0°-180°	6256.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1240	1226	1230	1226	1224	118
15°	1193	1181	1186	1182	1180	337
25°	1106	1093	1099	1087	1086	509
35°	974	963	966	953	952	608
45°	788	778	775	761	759	604
55°	516	508	505	496	494	463
65°	277	275	278	276	276	281
75°	150	150	150	151	151	158
85°	38	40	42	42	42	45
90°	2	6	11	14	14	4
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°	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1241.3	1230.5	1233.7	1231.0	1225.2
5°	1240.0	1226.5	1230.5	1226.2	1224.1
7.5°	1230.5	1217.2	1221.1	1216.9	1215.6
10°	1222.0	1209.5	1213.5	1209.2	1207.1
12.5°	1212.6	1199.3	1204.1	1199.0	1196.9
15°	1193.3	1180.8	1185.9	1181.6	1179.5
17.5°	1172.0	1158.7	1163.8	1158.8	1156.1
20°	1155.0	1142.6	1147.6	1140.1	1139.1
22.5°	1136.3	1123.9	1128.9	1118.9	1118.7
25°	1106.2	1092.7	1098.7	1087.0	1086.0
27.5°	1070.2	1057.8	1062.8	1050.9	1049.6
30°	1045.6	1033.1	1038.2	1025.4	1023.3
32.5°	1017.5	1005.9	1010.1	997.3	996.1
35°	974.4	963.0	965.9	953.1	952.1
37.5°	925.3	914.9	916.6	902.5	901.5
40°	890.5	880.1	880.9	866.0	865.0
42.5°	852.2	841.8	840.9	826.0	825.0
45°	788.4	778.1	774.6	760.8	758.7
47.5°	715.8	705.4	699.0	687.7	686.2
50°	663.1	652.7	647.1	637.5	634.4
52.5°	606.1	595.7	591.0	582.2	579.1
55°	516.4	508.1	504.7	496.2	494.1
57.5°	431.2	425.6	424.6	416.3	415.5
60°	379.3	376.2	376.2	368.7	368.7
62.5°	335.1	332.9	334.5	329.6	328.8
65°	277.3	275.3	278.4	276.3	276.3
67.5°	231.6	231.6	233.6	232.7	232.7
70°	206.1	206.1	207.2	207.2	207.2
72.5°	183.2	182.4	185.1	185.1	184.3
75°	149.8	149.8	149.8	150.9	150.9
77.5°	116.7	116.9	117.7	117.5	116.7
80°	94.6	95.6	95.6	94.6	94.6
82.5°	72.5	73.5	73.5	73.3	72.5
85°	38.3	40.3	42.5	42.5	42.5
87.5°	11.4	15.6	19.2	19.8	19.0
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)