

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: P563864

Luminaire Tested: **SQ4-PR1-025U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563864
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

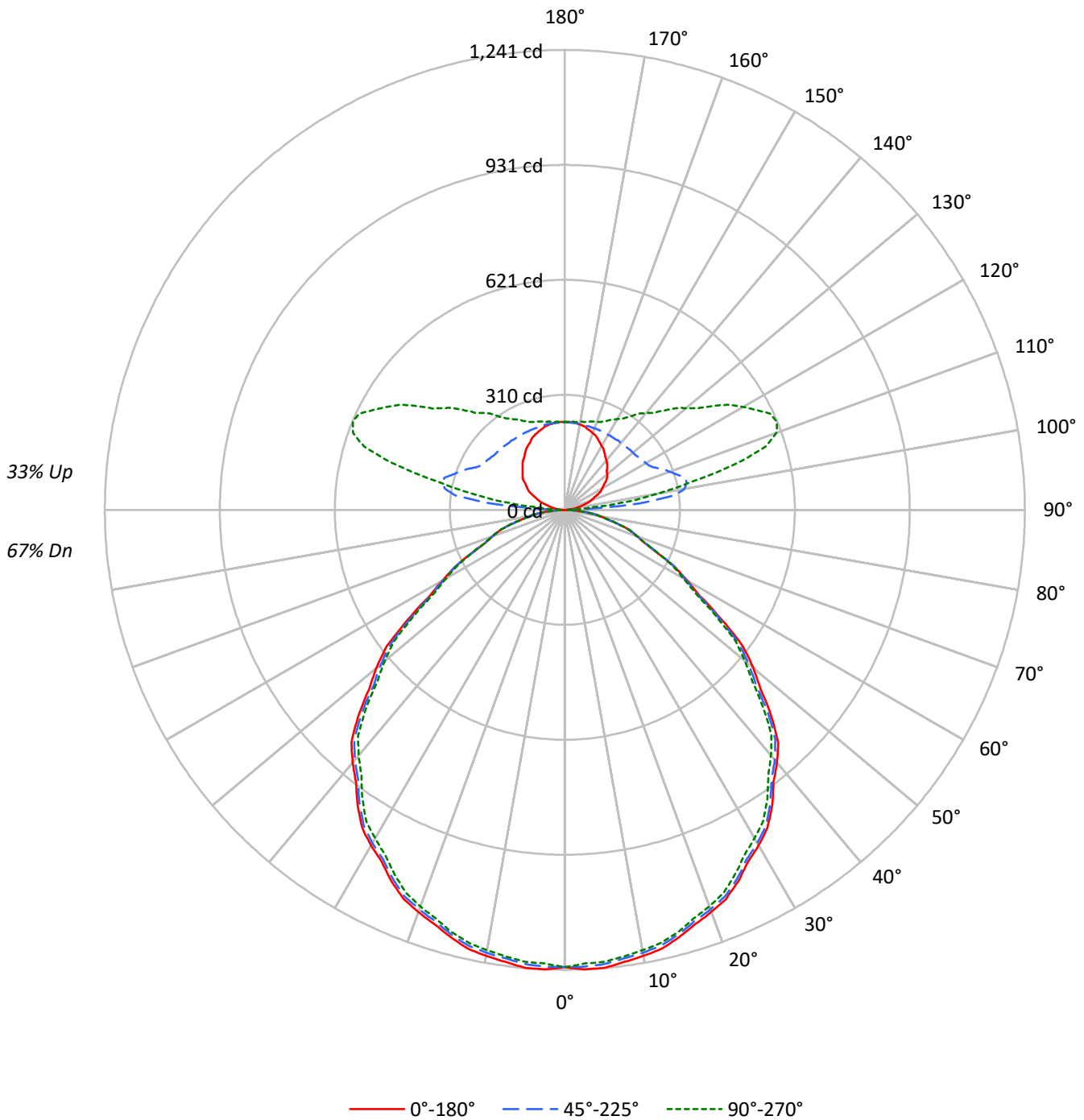
Lumens per Lamp: N/A
Luminaire Lumens: 4622.6 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

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	2.5
10°-20°	333.8	7.2
20°-30°	503.5	10.9
30°-40°	599.9	13.0
40°-50°	591.4	12.8
50°-60°	452.0	9.8
60°-70°	279.7	6.1
70°-80°	158.9	3.4
80°-90°	49.6	1.1
90°-100°	115.6	2.5
100°-110°	303.9	6.6
110°-120°	315.1	6.8
120°-130°	252.8	5.5
130°-140°	198.3	4.3
140°-150°	152.2	3.3
150°-160°	109.6	2.4
160°-170°	67.1	1.5
170°-180°	22.7	0.5
0°-30°	953.9	20.6
0°-40°	1553.8	33.6
0°-60°	2597.2	56.2
0°-90°	3085.3	66.7
90°-120°	734.6	15.9
90°-150°	1337.9	28.9
90°-180°	1537.0	33.2
0°-180°	4622.6	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	4	12	6	6	3
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

TEST NUMBER: P563864

CATALOG NUMBER: SQ4-PR1-025U-050D-930-1D-UNV-STD-W-8

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	15.3	19.4	18.2	17.4
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

TEST NUMBER: P563864

CATALOG NUMBER: SQ4-PR1-025U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)