

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: P519802

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519802
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

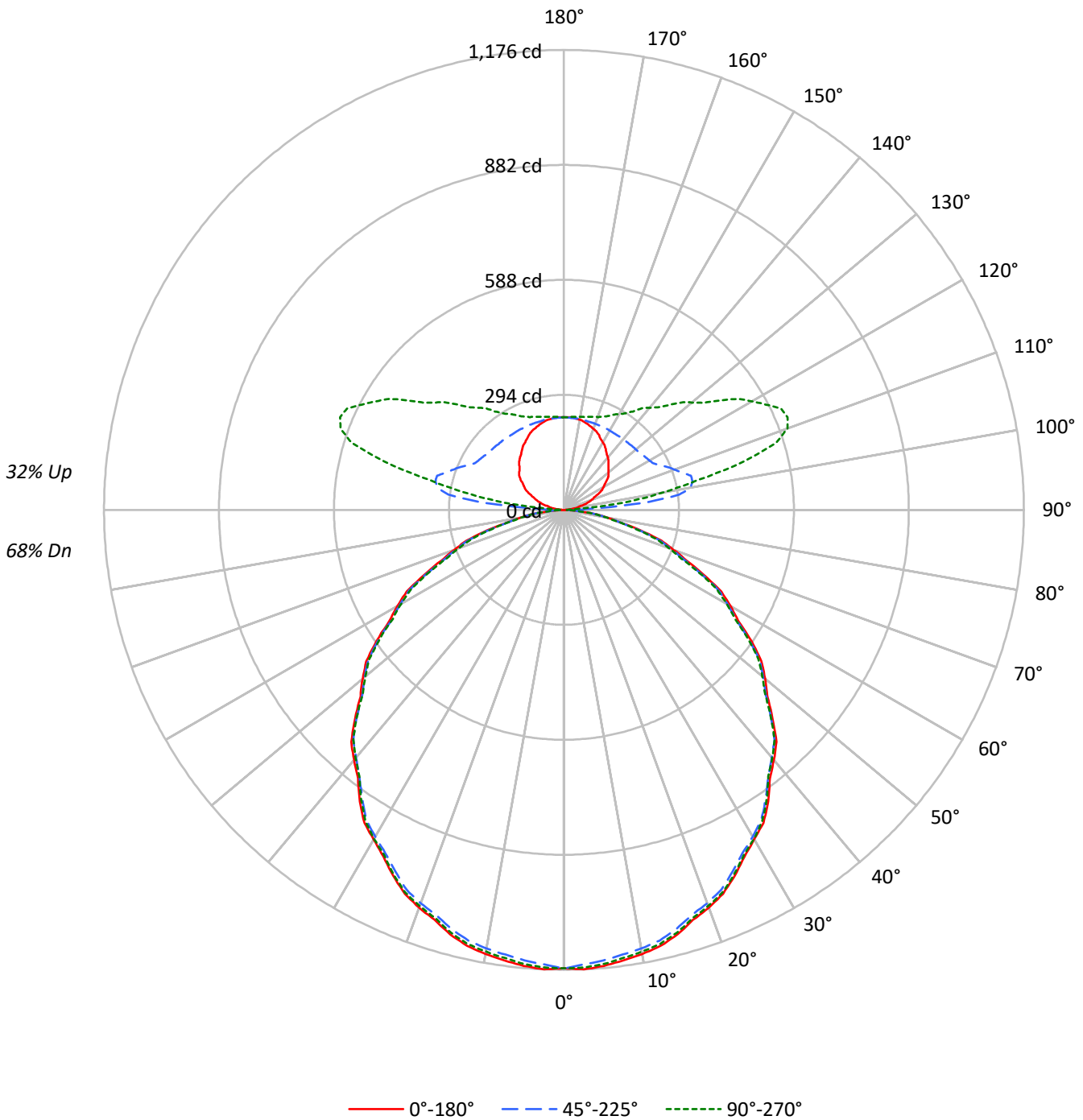
Lumens per Lamp: N/A
Luminaire Lumens: 4738.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	72	72	72	68
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57
2	93	85	78	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	43	40
4	77	66	58	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	32	30
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26
7	60	48	39	34	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5408	5408	5408
5°	5421	5355	5399
10°	5403	5337	5374
15°	5366	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5182	5141	5174
35°	5126	5064	5090
40°	5028	4980	4990
45°	4924	4883	4883
50°	4821	4775	4752
55°	4707	4645	4620
60°	4532	4460	4430
65°	4317	4231	4180
70°	4022	3937	3853
75°	3608	3495	3413
80°	2917	2877	2792
85°	1741	1995	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	2.3
10°-20°	315.0	6.6
20°-30°	473.1	10.0
30°-40°	564.7	11.9
40°-50°	578.7	12.2
50°-60°	516.1	10.9
60°-70°	384.4	8.1
70°-80°	208.7	4.4
80°-90°	49.6	1.0
90°-100°	115.6	2.4
100°-110°	303.9	6.4
110°-120°	315.1	6.7
120°-130°	252.8	5.3
130°-140°	198.3	4.2
140°-150°	152.2	3.2
150°-160°	109.6	2.3
160°-170°	67.1	1.4
170°-180°	22.7	0.5
0°-30°	898.7	19.0
0°-40°	1463.4	30.9
0°-60°	2558.2	54.0
0°-90°	3200.8	67.6
90°-120°	734.6	15.5
90°-150°	1337.9	28.2
90°-180°	1537.0	32.4
0°-180°	4738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1171	1169	1156	1168	1166	111
15°	1124	1121	1110	1119	1119	317
25°	1033	1030	1020	1026	1029	475
35°	910	907	899	899	904	568
45°	755	756	748	747	748	583
55°	585	585	578	573	574	521
65°	396	394	388	383	383	392
75°	202	201	196	193	192	214
85°	33	36	38	39	39	46
90°	2	4	12	6	6	2
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	378	125
145°	187	199	234	285	307	117
155°	211	217	234	257	265	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1176.1	1173.6	1163.4	1172.2	1171.0
5°	1170.7	1169.2	1156.5	1167.5	1166.0
7.5°	1162.3	1159.2	1146.9	1157.5	1156.0
10°	1153.5	1150.3	1139.3	1148.7	1147.2
12.5°	1142.1	1140.3	1128.0	1137.4	1137.1
15°	1123.6	1120.6	1109.5	1118.9	1118.9
17.5°	1099.2	1097.3	1086.6	1095.7	1094.4
20°	1082.8	1079.7	1070.3	1078.2	1078.2
22.5°	1062.8	1060.9	1051.4	1058.0	1059.3
25°	1032.6	1029.5	1020.1	1026.4	1029.4
27.5°	999.4	996.9	989.0	993.2	995.2
30°	972.9	972.9	965.2	966.8	971.4
32.5°	949.1	949.1	940.0	941.7	943.8
35°	910.2	907.2	899.2	899.3	903.9
37.5°	865.0	863.5	858.5	857.5	858.8
40°	834.9	833.3	827.0	828.6	828.6
42.5°	804.7	803.2	796.9	794.8	797.2
45°	754.8	756.4	748.5	747.0	748.5
47.5°	705.5	705.5	699.3	695.0	697.4
50°	671.7	671.7	665.4	662.2	662.2
52.5°	636.5	637.8	630.2	625.9	627.1
55°	585.3	585.3	577.5	572.8	574.4
57.5°	528.8	528.8	521.0	516.4	519.2
60°	491.2	491.2	483.4	478.6	480.2
62.5°	453.5	453.5	445.7	441.0	441.3
65°	395.5	393.9	387.6	382.9	382.9
67.5°	339.6	335.7	330.8	324.5	324.5
70°	298.2	296.6	291.9	285.7	285.7
72.5°	260.5	257.8	253.0	248.0	248.0
75°	202.4	200.9	196.1	193.0	191.5
77.5°	145.0	143.8	143.5	139.0	140.3
80°	109.8	109.8	108.3	105.1	105.1
82.5°	78.5	79.7	76.9	76.2	75.0
85°	32.9	36.0	37.7	39.2	39.2
87.5°	6.6	10.8	11.3	11.3	11.3
90°	1.5	4.5	12.1	6.1	6.1
92.5°	6.4	30.8	68.2	30.2	19.5
95°	15.2	59.8	199.2	102.7	70.0
97.5°	26.5	65.7	297.9	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.2	75.6	336.9	414.6	350.9
105°	54.8	83.0	336.0	510.0	475.8
107.5°	67.5	93.7	316.9	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.2	286.5	564.3	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.7	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.3	473.2	555.0
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.1
127.5°	144.1	160.8	241.5	386.4	449.2
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	237.1	334.0	378.5
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.6	306.4	340.6
142.5°	179.7	193.4	235.6	297.8	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.0	292.5
150°	199.2	209.5	234.1	267.9	282.7
152.5°	204.1	212.1	234.1	263.0	274.2
155°	211.3	217.3	234.1	257.1	264.6
157.5°	216.8	222.4	234.1	251.9	257.2
160°	220.4	224.9	234.1	249.4	252.3
162.5°	224.1	227.4	234.1	247.0	250.0
165°	228.1	231.0	234.1	243.4	246.3
167.5°	231.7	233.2	235.6	241.7	243.0
170°	234.1	235.6	235.6	241.7	241.7
172.5°	235.3	235.6	235.6	240.5	239.3
175°	237.1	237.1	235.6	238.7	238.7
177.5°	237.1	237.1	236.0	238.4	237.1
180°	237.1	237.1	237.1	237.1	237.1

(END OF REPORT)