

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: P519797

Luminaire Tested: **SQ4-F-025U-050D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519797
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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

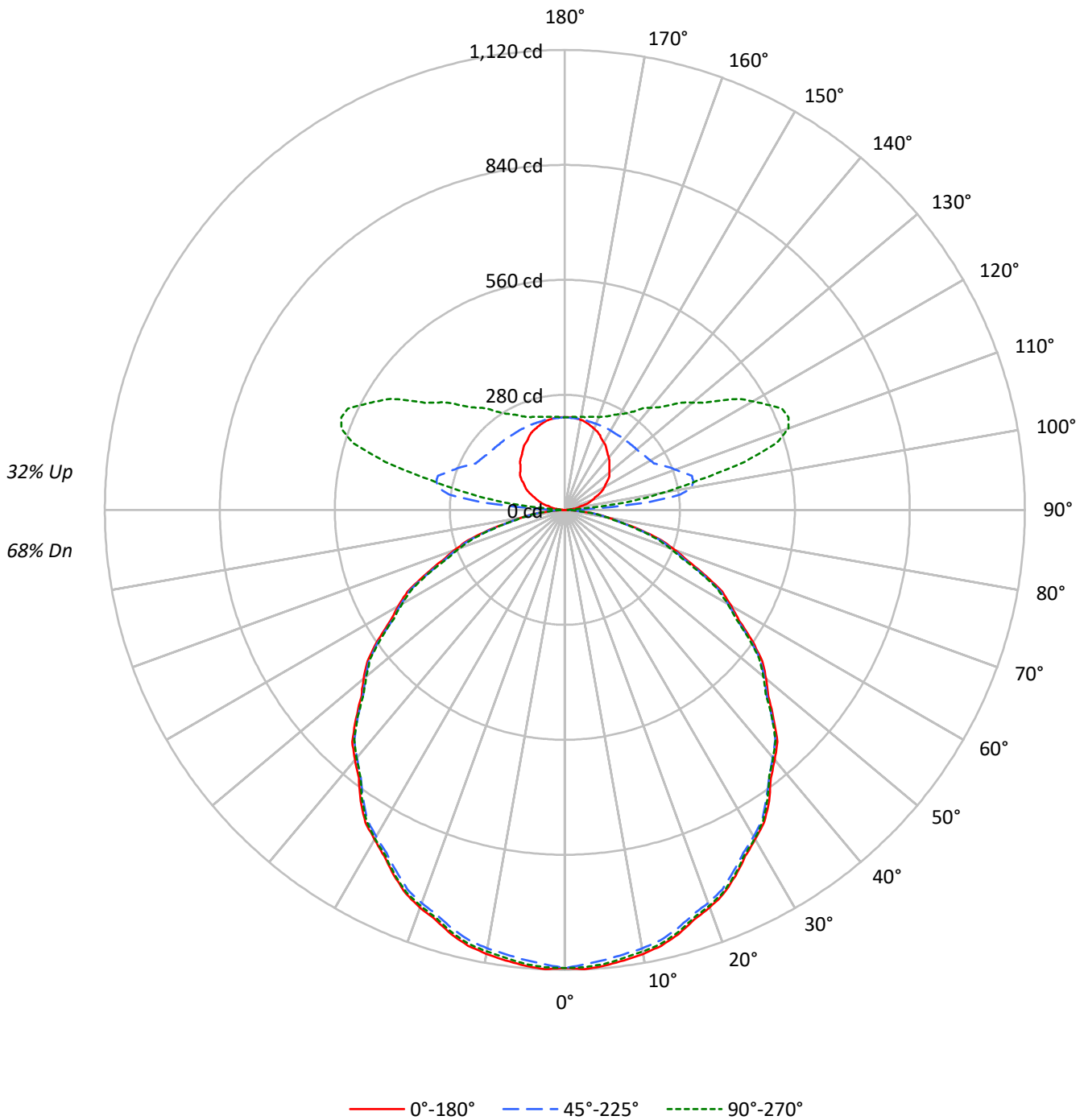
Lumens per Lamp: N/A
Luminaire Lumens: 4510.5 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 33.8
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°	6864	6864	6864
5°	6881	6798	6853
10°	6858	6775	6821
15°	6812	6726	6783
20°	6747	6669	6718
25°	6671	6591	6651
30°	6579	6526	6568
35°	6506	6427	6461
40°	6382	6322	6334
45°	6251	6199	6199
50°	6119	6061	6033
55°	5975	5896	5864
60°	5752	5660	5623
65°	5480	5370	5305
70°	5106	4998	4890
75°	4579	4439	4330
80°	3705	3648	3546
85°	2216	2534	2639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	2.3
10°-20°	299.9	6.6
20°-30°	450.4	10.0
30°-40°	537.6	11.9
40°-50°	550.9	12.2
50°-60°	491.3	10.9
60°-70°	365.9	8.1
70°-80°	198.6	4.4
80°-90°	47.2	1.0
90°-100°	110.0	2.4
100°-110°	289.3	6.4
110°-120°	300.0	6.7
120°-130°	240.6	5.3
130°-140°	188.8	4.2
140°-150°	144.9	3.2
150°-160°	104.4	2.3
160°-170°	63.9	1.4
170°-180°	21.6	0.5
0°-30°	855.5	19.0
0°-40°	1393.1	30.9
0°-60°	2435.3	54.0
0°-90°	3047.1	67.6
90°-120°	699.3	15.5
90°-150°	1273.6	28.2
90°-180°	1463.0	32.4
0°-180°	4510.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1114	1113	1101	1112	1110	106
15°	1070	1067	1056	1065	1065	301
25°	983	980	971	977	980	453
35°	866	864	856	856	860	541
45°	719	720	713	711	713	555
55°	557	557	550	545	547	496
65°	376	375	369	364	364	373
75°	193	191	187	184	182	204
85°	31	34	36	37	37	44
90°	1	4	12	6	6	2
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1119.6	1117.2	1107.6	1115.9	1114.8
5°	1114.5	1113.1	1101.0	1111.5	1110.0
7.5°	1106.5	1103.5	1091.8	1101.9	1100.4
10°	1098.1	1095.1	1084.7	1093.5	1092.1
12.5°	1087.3	1085.5	1073.8	1082.8	1082.5
15°	1069.7	1066.7	1056.3	1065.2	1065.2
17.5°	1046.4	1044.6	1034.4	1043.1	1041.9
20°	1030.8	1028.0	1018.9	1026.4	1026.4
22.5°	1011.7	1009.9	1000.9	1007.3	1008.4
25°	983.0	980.1	971.1	977.1	980.0
27.5°	951.3	949.0	941.5	945.4	947.5
30°	926.3	926.3	918.8	920.4	924.7
32.5°	903.5	903.5	894.8	896.4	898.5
35°	866.5	863.6	856.0	856.1	860.5
37.5°	823.5	822.0	817.2	816.4	817.5
40°	794.8	793.3	787.4	788.8	788.8
42.5°	766.1	764.7	758.7	756.6	759.0
45°	718.6	720.0	712.6	711.1	712.6
47.5°	671.7	671.7	665.7	661.5	663.9
50°	639.5	639.5	633.4	630.5	630.5
52.5°	605.9	607.1	600.0	595.8	597.0
55°	557.2	557.2	549.8	545.3	546.8
57.5°	503.5	503.5	496.0	491.5	494.2
60°	467.6	467.6	460.1	455.7	457.1
62.5°	431.8	431.8	424.3	419.8	420.1
65°	376.5	375.0	369.0	364.5	364.5
67.5°	323.3	319.5	314.9	308.9	308.9
70°	283.9	282.4	277.9	271.9	271.9
72.5°	248.0	245.3	240.8	236.1	236.1
75°	192.7	191.3	186.8	183.7	182.2
77.5°	138.0	136.9	136.6	132.4	133.5
80°	104.6	104.6	103.0	100.1	100.1
82.5°	74.7	75.8	73.2	72.6	71.4
85°	31.4	34.3	35.9	37.4	37.4
87.5°	6.3	10.4	10.7	10.7	10.7
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.2	64.8	28.7	18.5
95°	14.4	57.0	189.6	97.7	66.6
97.5°	25.1	62.5	283.7	225.6	166.1
100°	33.3	67.3	312.7	316.8	246.0
102.5°	40.2	72.0	320.7	394.6	334.1
105°	52.1	79.0	319.8	485.6	453.0
107.5°	64.2	89.2	301.7	532.8	540.7
110°	72.4	95.0	286.6	544.9	579.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.5	128.5	240.3	450.4	528.3
122.5°	118.4	135.3	236.8	426.1	502.8
125°	128.8	144.3	233.0	393.8	464.6
127.5°	137.2	153.0	229.9	367.8	427.6
130°	141.8	158.9	228.6	351.5	406.7
132.5°	146.4	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	176.0	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.6	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.4	222.9	271.2	292.4
147.5°	185.0	196.0	222.9	260.9	278.4
150°	189.6	199.5	222.9	255.0	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.9
157.5°	206.4	211.7	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.4	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.2	230.2
172.5°	224.1	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)