

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: P519808

Luminaire Tested: **SQ4-F-025U-050D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519808
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

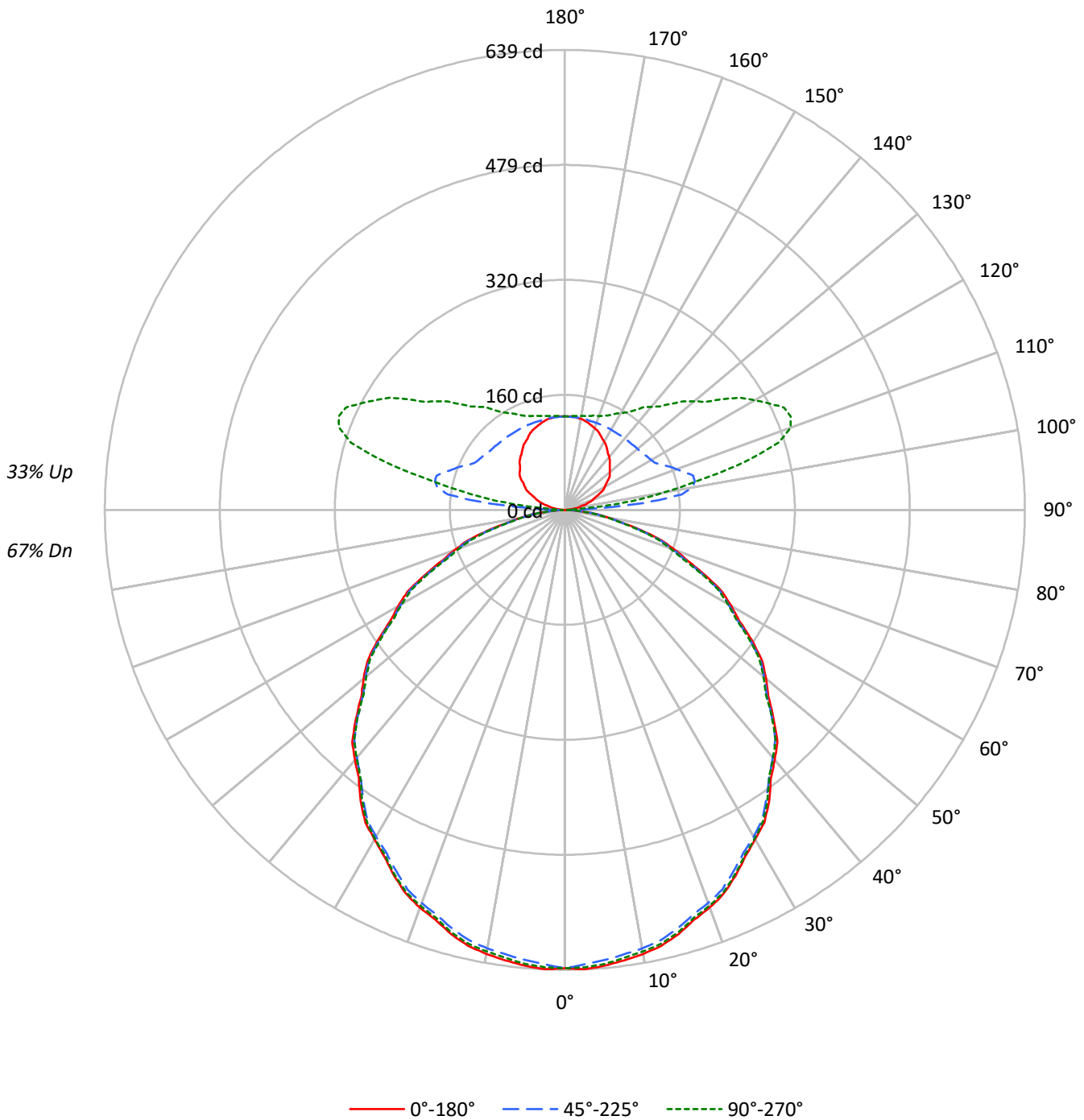
Lumens per Lamp: N/A
Luminaire Lumens: 2582.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	67
1	102	97	93	90	96	92	88	85	82	79	76	72	70	68	64	62	61	57
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	56	53	51	47
3	84	74	67	61	79	70	64	58	63	57	53	56	52	48	49	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	66	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	28	26
7	60	48	39	34	57	45	38	32	41	35	30	37	31	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°	5875	5875	5875
5°	5889	5818	5865
10°	5869	5797	5838
15°	5830	5757	5806
20°	5775	5708	5750
25°	5710	5641	5693
30°	5630	5586	5621
35°	5568	5501	5530
40°	5462	5410	5420
45°	5350	5305	5305
50°	5236	5187	5163
55°	5115	5046	5019
60°	4923	4846	4812
65°	4689	4595	4541
70°	4370	4278	4184
75°	3918	3800	3707
80°	3172	3124	3034
85°	1895	2160	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	2.3
10°-20°	171.1	6.6
20°-30°	257.0	10.0
30°-40°	306.7	11.9
40°-50°	314.3	12.2
50°-60°	280.3	10.9
60°-70°	208.8	8.1
70°-80°	113.3	4.4
80°-90°	26.9	1.0
90°-100°	63.4	2.5
100°-110°	166.7	6.5
110°-120°	172.9	6.7
120°-130°	138.7	5.4
130°-140°	108.8	4.2
140°-150°	83.5	3.2
150°-160°	60.2	2.3
160°-170°	36.8	1.4
170°-180°	12.4	0.5
0°-30°	488.2	18.9
0°-40°	794.9	30.8
0°-60°	1389.6	53.8
0°-90°	1738.6	67.3
90°-120°	403.0	15.6
90°-150°	734.1	28.4
90°-180°	843.0	32.6
0°-180°	2582.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	636	635	628	634	633	60
15°	610	609	603	608	608	172
25°	561	559	554	558	559	258
35°	494	493	488	488	491	309
45°	410	411	407	406	407	316
55°	318	318	314	311	312	283
65°	215	214	210	208	208	213
75°	110	109	107	105	104	116
85°	18	20	20	21	21	25
90°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.8	636.8	636.8	636.8	636.8
2.5°	638.8	637.5	632.0	636.8	636.1
5°	635.9	635.1	628.2	634.2	633.3
7.5°	631.3	629.6	623.0	628.7	627.9
10°	626.5	624.9	618.8	624.0	623.1
12.5°	620.4	619.4	612.7	617.9	617.7
15°	610.4	608.7	602.7	607.8	607.8
17.5°	597.1	596.1	590.3	595.2	594.5
20°	588.2	586.5	581.4	585.6	585.6
22.5°	577.2	576.3	571.1	574.7	575.4
25°	560.9	559.2	554.1	557.5	559.2
27.5°	542.8	541.4	537.2	539.5	540.7
30°	528.5	528.5	524.3	525.2	527.6
32.5°	515.5	515.5	510.6	511.5	512.7
35°	494.4	492.7	488.4	488.5	491.0
37.5°	469.9	469.1	466.3	465.8	466.4
40°	453.5	452.7	449.2	450.0	450.0
42.5°	437.1	436.3	432.9	431.7	433.1
45°	410.0	410.9	406.6	405.8	406.6
47.5°	383.3	383.3	379.8	377.5	378.8
50°	364.8	364.8	361.4	359.7	359.7
52.5°	345.7	346.4	342.4	340.0	340.6
55°	318.0	318.0	313.7	311.2	312.0
57.5°	287.2	287.2	283.0	280.4	282.0
60°	266.8	266.8	262.6	260.0	260.8
62.5°	246.3	246.3	242.1	239.5	239.7
65°	214.8	214.0	210.5	208.0	208.0
67.5°	184.5	182.3	179.7	176.3	176.3
70°	162.0	161.1	158.6	155.1	155.1
72.5°	141.5	140.0	137.5	134.7	134.7
75°	109.9	109.2	106.6	104.8	104.0
77.5°	78.8	78.1	77.9	75.5	76.2
80°	59.7	59.7	58.8	57.1	57.1
82.5°	42.6	43.3	41.8	41.4	40.7
85°	17.9	19.5	20.4	21.3	21.3
87.5°	3.5	5.9	6.1	6.1	6.1
90°	0.9	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.3
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.7	180.2	182.6	141.8
102.5°	23.2	41.5	184.9	227.4	192.5
105°	30.0	45.5	184.4	279.9	261.0
107.5°	37.0	51.4	173.9	307.0	311.6
110°	41.7	54.8	165.2	314.1	333.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.1	309.6	339.6
115°	53.4	64.8	147.7	294.6	336.2
117.5°	60.2	70.6	141.2	273.7	319.8
120°	64.2	74.0	138.5	259.6	304.4
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.3	83.3	134.3	227.0	267.7
127.5°	79.0	88.2	132.5	212.0	246.4
130°	81.7	91.6	131.8	202.5	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	96.0	104.1	129.3	168.1	186.9
142.5°	98.5	106.1	129.3	163.4	179.5
145°	102.6	109.2	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.2	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.1	128.5	138.2	141.2
160°	120.9	123.4	128.5	136.9	138.5
162.5°	122.9	124.7	128.5	135.5	137.2
165°	125.1	126.7	128.5	133.5	135.2
167.5°	127.1	127.9	129.3	132.7	133.3
170°	128.5	129.2	129.3	132.7	132.7
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.4	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)