

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: P520000

Luminaire Tested: **SQ4-F-075U-050D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520000
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

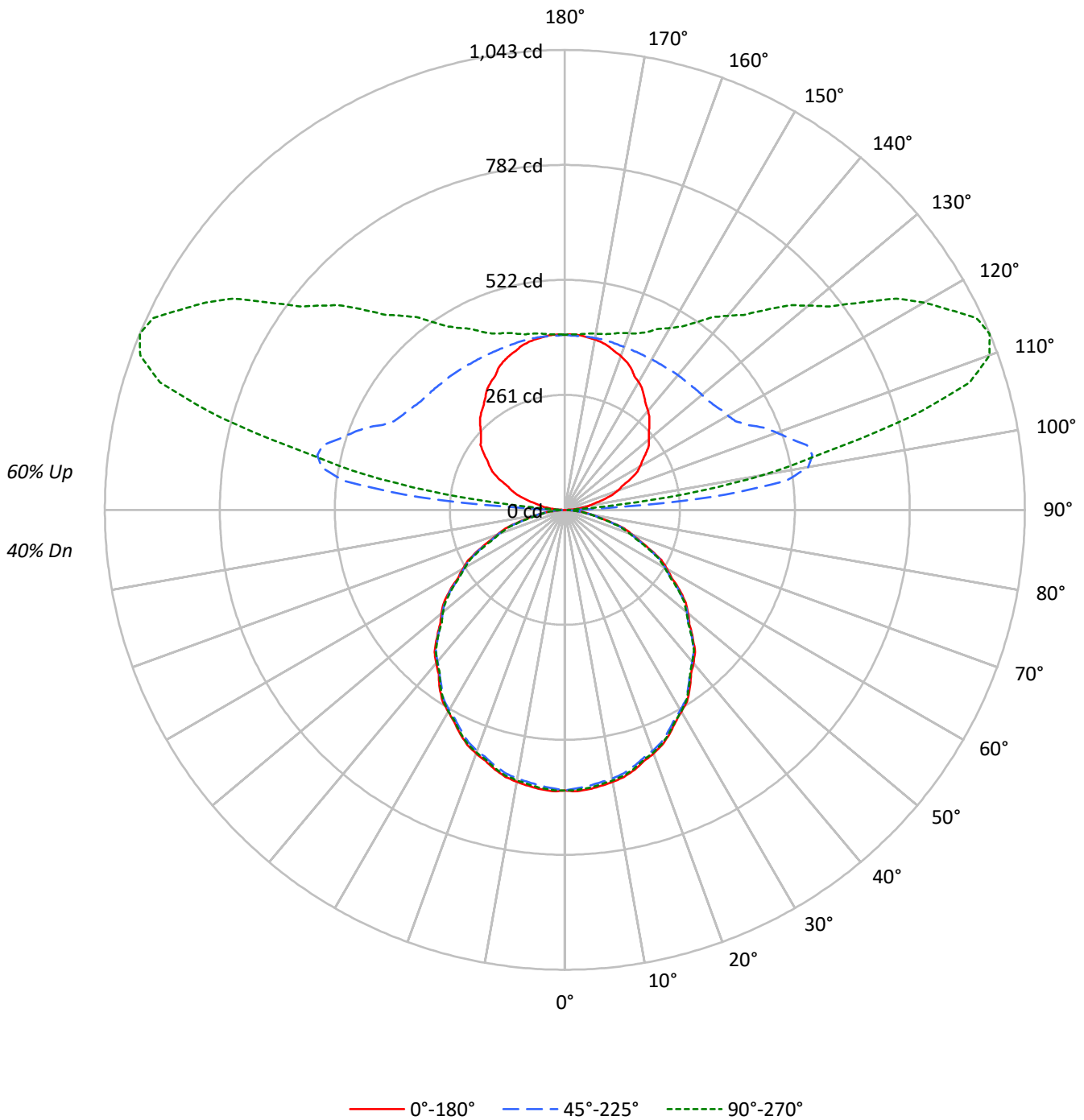
Lumens per Lamp: N/A
Luminaire Lumens: 4327.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.7
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	80	74	68	79	73	68	63	60	56	53	48	45	43	37	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	56	50	44	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	19	16	14
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	17	14	12	10

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	1.4
10°-20°	171.1	4.0
20°-30°	257.0	5.9
30°-40°	306.7	7.1
40°-50°	314.3	7.3
50°-60°	280.3	6.5
60°-70°	208.8	4.8
70°-80°	113.3	2.6
80°-90°	27.3	0.6
90°-100°	187.4	4.3
100°-110°	515.5	11.9
110°-120°	532.1	12.3
120°-130°	426.3	9.9
130°-140°	334.8	7.7
140°-150°	256.6	5.9
150°-160°	184.5	4.3
160°-170°	112.8	2.6
170°-180°	38.0	0.9
0°-30°	488.2	11.3
0°-40°	794.9	18.4
0°-60°	1389.6	32.1
0°-90°	1738.9	40.2
90°-120°	1235.0	28.5
90°-150°	2252.8	52.1
90°-180°	2588.0	59.8
0°-180°	4327.0	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	3	6	8	8	2
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	445	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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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	6.1	6.0	7.0	7.0
90°	0.9	3.3	5.9	7.6	7.6
92.5°	11.6	49.9	86.4	33.2	27.2
95°	27.9	102.3	331.4	141.7	90.5
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.0	807.2
107.5°	112.8	158.1	535.7	945.1	962.3
110°	127.6	168.9	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.1	181.1	487.0	952.1	1042.7
115°	163.2	198.7	455.6	907.2	1029.6
117.5°	184.1	216.8	435.7	844.2	982.5
120°	197.0	228.4	426.9	797.0	940.0
122.5°	208.4	239.8	420.8	755.5	891.3
125°	224.9	256.3	413.4	699.3	819.1
127.5°	240.4	270.4	408.5	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	257.9	288.5	403.7	599.8	686.3
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.9	311.4	399.7	537.8	599.1
140°	293.3	319.0	399.0	519.4	574.7
142.5°	301.5	325.0	397.6	502.9	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.2	393.9	452.8	475.9
152.5°	342.1	357.4	393.2	443.9	463.0
155°	355.1	366.6	393.0	433.0	445.4
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.8	410.8	413.4
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.0	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.9
177.5°	398.0	398.0	395.3	399.3	398.0
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)