

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: P519789

Luminaire Tested: **SQ4-F-025U-050D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519789
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-830-1D-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

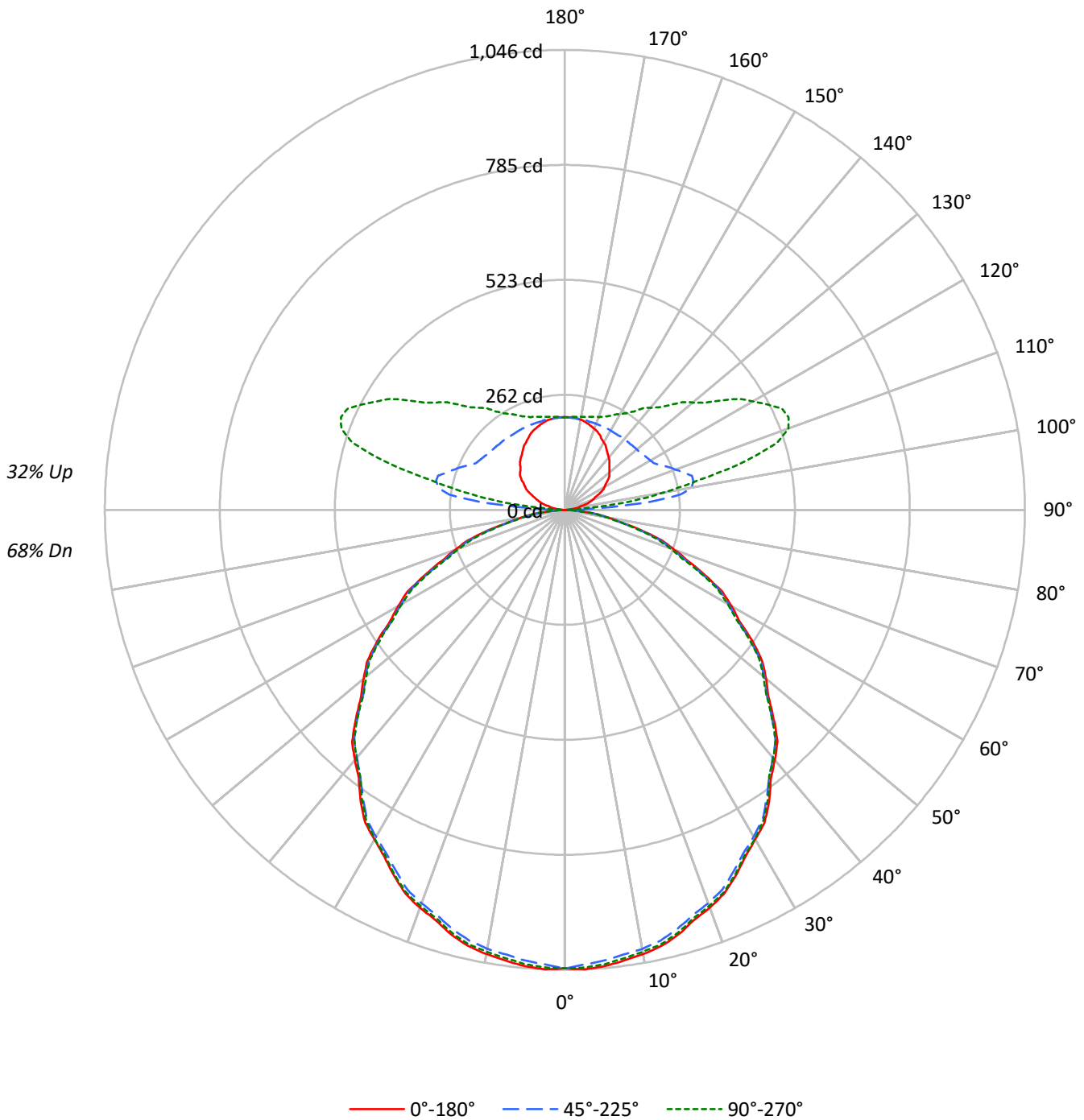
Lumens per Lamp: N/A
Luminaire Lumens: 4215.1 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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°	6415	6415	6415
5°	6431	6353	6405
10°	6409	6331	6374
15°	6365	6285	6338
20°	6305	6232	6278
25°	6234	6159	6215
30°	6148	6098	6138
35°	6080	6007	6038
40°	5963	5907	5919
45°	5841	5793	5793
50°	5718	5664	5638
55°	5584	5509	5480
60°	5376	5290	5255
65°	5120	5018	4959
70°	4769	4669	4570
75°	4280	4147	4047
80°	3461	3411	3315
85°	2068	2364	2463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	2.3
10°-20°	280.2	6.6
20°-30°	420.9	10.0
30°-40°	502.4	11.9
40°-50°	514.8	12.2
50°-60°	459.1	10.9
60°-70°	341.9	8.1
70°-80°	185.6	4.4
80°-90°	44.1	1.0
90°-100°	102.8	2.4
100°-110°	270.3	6.4
110°-120°	280.3	6.7
120°-130°	224.9	5.3
130°-140°	176.4	4.2
140°-150°	135.4	3.2
150°-160°	97.5	2.3
160°-170°	59.7	1.4
170°-180°	20.2	0.5
0°-30°	799.5	19.0
0°-40°	1301.9	30.9
0°-60°	2275.8	54.0
0°-90°	2847.5	67.6
90°-120°	653.5	15.5
90°-150°	1190.2	28.2
90°-180°	1368.0	32.5
0°-180°	4215.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1042	1040	1029	1039	1037	99
15°	1000	997	987	995	995	282
25°	919	916	908	913	916	423
35°	810	807	800	800	804	505
45°	672	673	666	665	666	518
55°	521	521	514	510	511	464
65°	352	350	345	341	341	348
75°	180	179	174	172	170	190
85°	29	32	34	35	35	41
90°	1	4	11	5	5	2
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.9	1042.9	1042.9	1042.9	1042.9
2.5°	1046.2	1044.0	1035.1	1042.9	1041.8
5°	1041.5	1040.1	1029.0	1038.7	1037.3
7.5°	1034.0	1031.2	1020.3	1029.7	1028.4
10°	1026.1	1023.4	1013.6	1021.9	1020.6
12.5°	1016.0	1014.5	1003.5	1011.9	1011.6
15°	999.6	996.9	987.0	995.4	995.4
17.5°	977.9	976.2	966.6	974.7	973.6
20°	963.3	960.6	952.1	959.1	959.1
22.5°	945.4	943.8	935.4	941.3	942.4
25°	918.6	915.9	907.5	913.1	915.8
27.5°	889.0	886.9	879.9	883.5	885.4
30°	865.6	865.6	858.6	860.0	864.2
32.5°	844.4	844.4	836.3	837.7	839.6
35°	809.7	807.0	800.0	800.1	804.1
37.5°	769.5	768.1	763.7	762.8	763.9
40°	742.7	741.3	735.7	737.2	737.2
42.5°	715.9	714.6	709.0	707.0	709.2
45°	671.5	672.9	666.0	664.6	666.0
47.5°	627.7	627.7	622.1	618.3	620.4
50°	597.6	597.6	591.9	589.2	589.2
52.5°	566.3	567.4	560.7	556.8	557.9
55°	520.7	520.7	513.7	509.6	511.0
57.5°	470.4	470.4	463.5	459.4	461.9
60°	437.0	437.0	430.0	425.9	427.2
62.5°	403.5	403.5	396.5	392.4	392.5
65°	351.8	350.4	344.8	340.7	340.7
67.5°	302.1	298.6	294.3	288.7	288.7
70°	265.2	263.9	259.6	254.1	254.1
72.5°	231.7	229.3	225.0	220.6	220.6
75°	180.1	178.8	174.5	171.7	170.3
77.5°	129.0	127.9	127.6	123.8	124.8
80°	97.7	97.7	96.3	93.6	93.6
82.5°	69.8	70.9	68.4	67.8	66.8
85°	29.3	32.0	33.5	34.9	34.9
87.5°	5.8	9.7	10.1	10.1	10.1
90°	1.3	4.0	10.8	5.4	5.4
92.5°	5.6	27.3	60.6	26.9	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.2
100°	31.1	62.8	292.1	296.0	229.9
102.5°	37.6	67.2	299.8	368.8	312.2
105°	48.7	73.8	298.9	453.7	423.4
107.5°	60.0	83.4	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.0	239.4	477.6	545.0
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.2	120.1	224.5	421.0	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.3	135.0	217.7	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.6	148.4	213.7	328.5	380.0
132.5°	136.9	152.7	212.6	315.3	361.7
135°	143.4	157.9	211.0	297.1	336.7
137.5°	150.2	164.4	210.8	283.4	315.9
140°	155.5	168.8	209.6	272.5	303.0
142.5°	159.9	172.1	209.6	264.9	291.1
145°	166.3	176.9	208.3	253.4	273.2
147.5°	172.8	183.1	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.4	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.8	222.3
165°	202.8	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.3	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.4	212.4
177.5°	211.0	211.0	209.9	212.0	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)