

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: P563195

Luminaire Tested: **SQ4-PP3-025U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563195
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

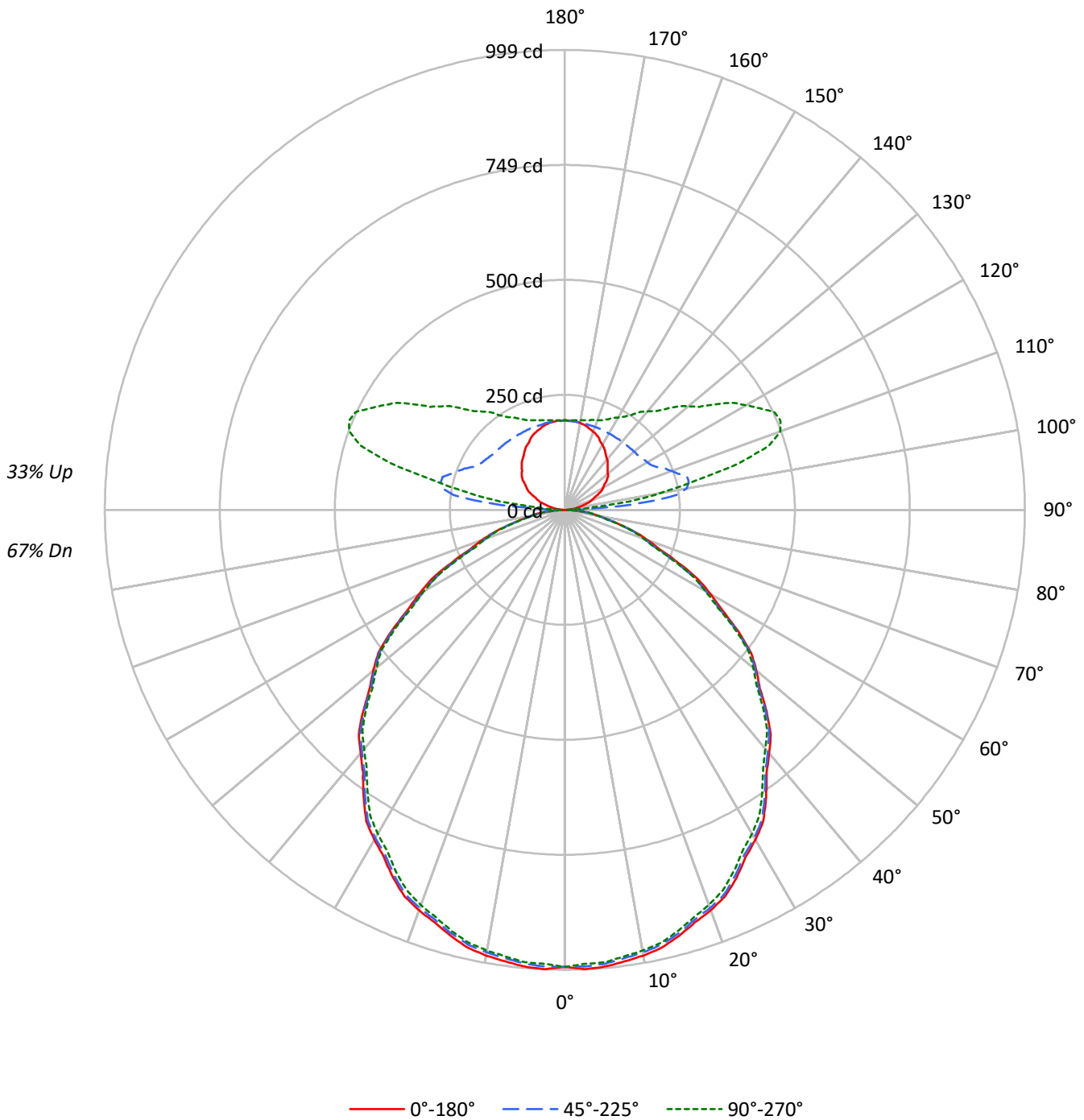
Lumens per Lamp: N/A
Luminaire Lumens: 3800.6 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6150	6113	6092
10°	6140	6096	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5505	5441
45°	5388	5350	5297
50°	5195	5161	5112
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3774
70°	3412	3269	3269
75°	2935	2895	2854
80°	2589	2618	2557
85°	2025	2209	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	2.5
10°-20°	268.0	7.1
20°-30°	401.5	10.6
30°-40°	470.9	12.4
40°-50°	472.4	12.4
50°-60°	403.0	10.6
60°-70°	262.8	6.9
70°-80°	131.8	3.5
80°-90°	37.5	1.0
90°-100°	94.7	2.5
100°-110°	248.9	6.5
110°-120°	258.1	6.8
120°-130°	207.0	5.4
130°-140°	162.4	4.3
140°-150°	124.6	3.3
150°-160°	89.8	2.4
160°-170°	54.9	1.4
170°-180°	18.6	0.5
0°-30°	763.3	20.1
0°-40°	1234.2	32.5
0°-60°	2109.5	55.5
0°-90°	2541.7	66.9
90°-120°	601.6	15.8
90°-150°	1095.7	28.8
90°-180°	1259.0	33.1
0°-180°	3800.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	996	987	990	987	987	95
15°	958	948	953	949	947	270
25°	882	872	876	868	867	406
35°	762	754	757	748	747	476
45°	619	615	615	609	609	477
55°	459	458	453	451	450	408
65°	271	266	260	258	259	271
75°	124	124	122	121	120	134
85°	29	31	31	31	31	34
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.8	992.7	991.2	987.1
5°	996.1	986.8	990.0	986.6	986.6
7.5°	989.4	979.1	982.4	978.9	978.7
10°	983.1	972.9	976.1	972.6	971.8
12.5°	974.0	963.8	967.8	963.6	963.4
15°	957.9	948.5	952.6	949.1	947.4
17.5°	939.6	929.4	934.4	929.5	928.8
20°	925.7	915.5	920.4	913.5	913.5
22.5°	909.0	898.8	904.4	895.4	895.4
25°	882.2	872.0	876.1	868.2	867.4
27.5°	850.3	840.3	844.6	835.7	835.5
30°	827.4	818.0	823.0	813.4	812.6
32.5°	802.3	793.6	797.3	787.7	786.8
35°	762.1	754.5	756.9	748.2	747.3
37.5°	719.8	712.0	714.8	707.3	707.0
40°	689.9	684.8	685.6	679.4	677.7
42.5°	662.1	656.3	657.0	650.9	650.6
45°	619.4	615.2	615.1	609.0	609.0
47.5°	574.2	571.0	570.0	565.0	564.8
50°	542.9	540.3	539.4	535.0	534.2
52.5°	510.2	509.0	506.0	502.3	502.2
55°	459.4	457.7	453.3	450.6	449.8
57.5°	404.2	400.8	395.8	392.0	392.7
60°	364.5	361.1	354.1	352.3	352.3
62.5°	326.2	322.2	315.1	312.7	314.1
65°	271.4	266.3	260.1	258.4	259.3
67.5°	221.7	217.1	210.4	210.3	209.7
70°	189.7	187.1	181.8	181.8	181.8
72.5°	161.1	159.9	156.1	156.1	155.4
75°	123.5	123.5	121.8	120.9	120.1
77.5°	92.6	92.9	92.0	91.1	89.6
80°	73.1	74.8	73.9	73.1	72.2
82.5°	55.0	56.7	56.5	55.0	54.8
85°	28.7	31.3	31.3	31.3	31.3
87.5°	7.9	11.1	13.1	12.1	12.8
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)