

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: P563944

Luminaire Tested: **SQ4-PR1-025U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563944
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10061.3 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

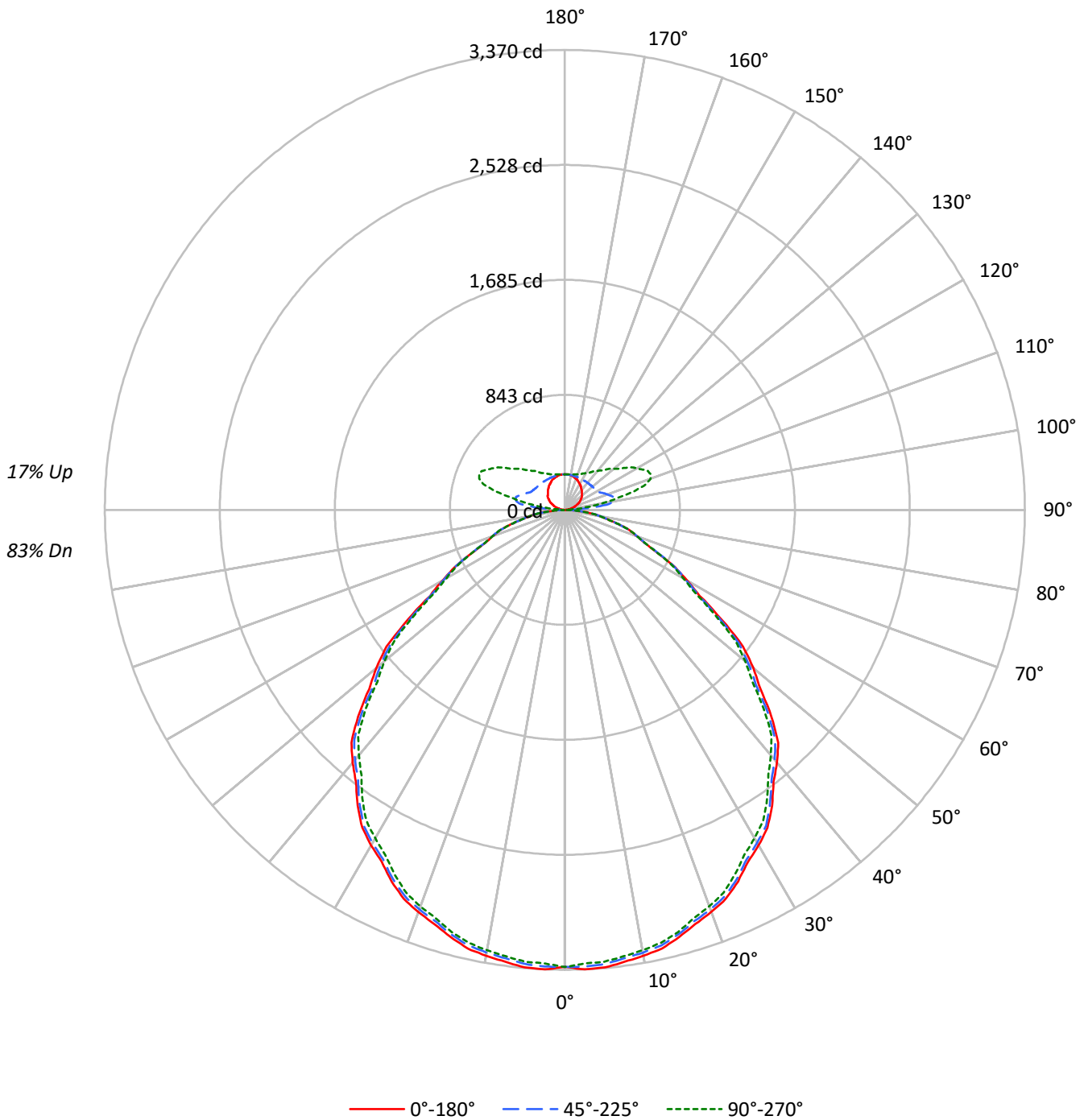
Input Watts (W): 101.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	40	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	41	36	33	31
8	60	47	39	33	57	46	38	33	43	36	32	40	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15472	15376	15293
20°	15395	15295	15182
25°	15286	15183	15007
30°	15121	15013	14799
35°	14898	14768	14557
40°	14558	14402	14141
45°	13965	13720	13438
50°	12920	12609	12360
55°	11277	11021	10789
60°	9502	9423	9236
65°	8219	8250	8188
70°	7549	7588	7588
75°	7251	7251	7302
80°	6822	6896	6822
85°	5499	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	3.1
10°-20°	906.2	9.0
20°-30°	1366.8	13.6
30°-40°	1628.6	16.2
40°-50°	1605.7	16.0
50°-60°	1227.1	12.2
60°-70°	759.4	7.5
70°-80°	431.3	4.3
80°-90°	132.6	1.3
90°-100°	126.8	1.3
100°-110°	333.5	3.3
110°-120°	345.8	3.4
120°-130°	277.3	2.8
130°-140°	217.6	2.2
140°-150°	167.0	1.7
150°-160°	120.3	1.2
160°-170°	73.6	0.7
170°-180°	24.9	0.2
0°-30°	2589.8	25.7
0°-40°	4218.4	41.9
0°-60°	7051.2	70.1
0°-90°	8374.5	83.2
90°-120°	806.1	8.0
90°-150°	1468.1	14.6
90°-180°	1687.0	16.8
0°-180°	10061.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3349	3349	3349	3349	3349	
5°	3367	3330	3341	3329	3323	319
15°	3240	3206	3220	3208	3202	914
25°	3003	2966	2983	2951	2948	1382
35°	2646	2614	2622	2588	2585	1651
45°	2141	2112	2103	2066	2060	1640
55°	1402	1380	1370	1347	1342	1256
65°	753	747	756	750	750	763
75°	407	407	407	410	410	430
85°	104	110	115	115	115	121
90°	2	5	13	7	7	6
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3349.4	3349.4	3349.4	3349.4	3349.4
2.5°	3370.1	3340.8	3349.4	3342.1	3326.3
5°	3366.7	3330.0	3340.7	3329.0	3323.4
7.5°	3340.7	3304.6	3315.3	3303.7	3300.3
10°	3317.6	3283.8	3294.6	3282.9	3277.2
12.5°	3292.2	3256.1	3269.2	3255.2	3249.6
15°	3239.7	3205.9	3219.5	3207.9	3202.2
17.5°	3182.0	3145.9	3159.5	3146.1	3138.8
20°	3135.9	3102.0	3115.7	3095.4	3092.6
22.5°	3085.1	3051.3	3064.9	3037.8	3037.2
25°	3003.2	2966.5	2983.0	2951.2	2948.4
27.5°	2905.7	2871.8	2885.5	2853.1	2849.7
30°	2838.7	2804.9	2818.5	2783.8	2778.2
32.5°	2762.6	2731.0	2742.4	2707.7	2704.3
35°	2645.5	2614.4	2622.4	2587.7	2584.9
37.5°	2512.2	2484.0	2488.5	2450.4	2447.6
40°	2417.5	2389.3	2391.6	2351.1	2348.3
42.5°	2313.7	2285.5	2283.1	2242.7	2239.8
45°	2140.6	2112.4	2103.1	2065.5	2059.8
47.5°	1943.3	1915.1	1897.7	1867.0	1863.1
50°	1800.2	1772.0	1756.9	1730.7	1722.3
52.5°	1645.5	1617.3	1604.6	1580.7	1572.3
55°	1402.1	1379.5	1370.3	1347.1	1341.5
57.5°	1170.7	1155.5	1152.8	1130.3	1128.0
60°	1029.9	1021.4	1021.3	1001.1	1001.1
62.5°	909.9	903.7	908.2	894.8	892.6
65°	753.0	747.3	755.8	750.1	750.1
67.5°	628.9	628.9	634.1	631.8	631.8
70°	559.7	559.7	562.6	562.6	562.6
72.5°	497.4	495.1	502.5	502.5	500.2
75°	406.8	406.8	406.8	409.7	409.7
77.5°	316.8	317.3	319.6	319.0	316.8
80°	256.8	259.6	259.6	256.8	256.8
82.5°	196.8	199.6	199.6	199.0	196.8
85°	103.9	109.5	115.4	115.4	115.4
87.5°	30.3	40.0	48.8	47.4	45.2
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)