

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: P563933

Luminaire Tested: **SQ4-PR1-025U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563933
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-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13868.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

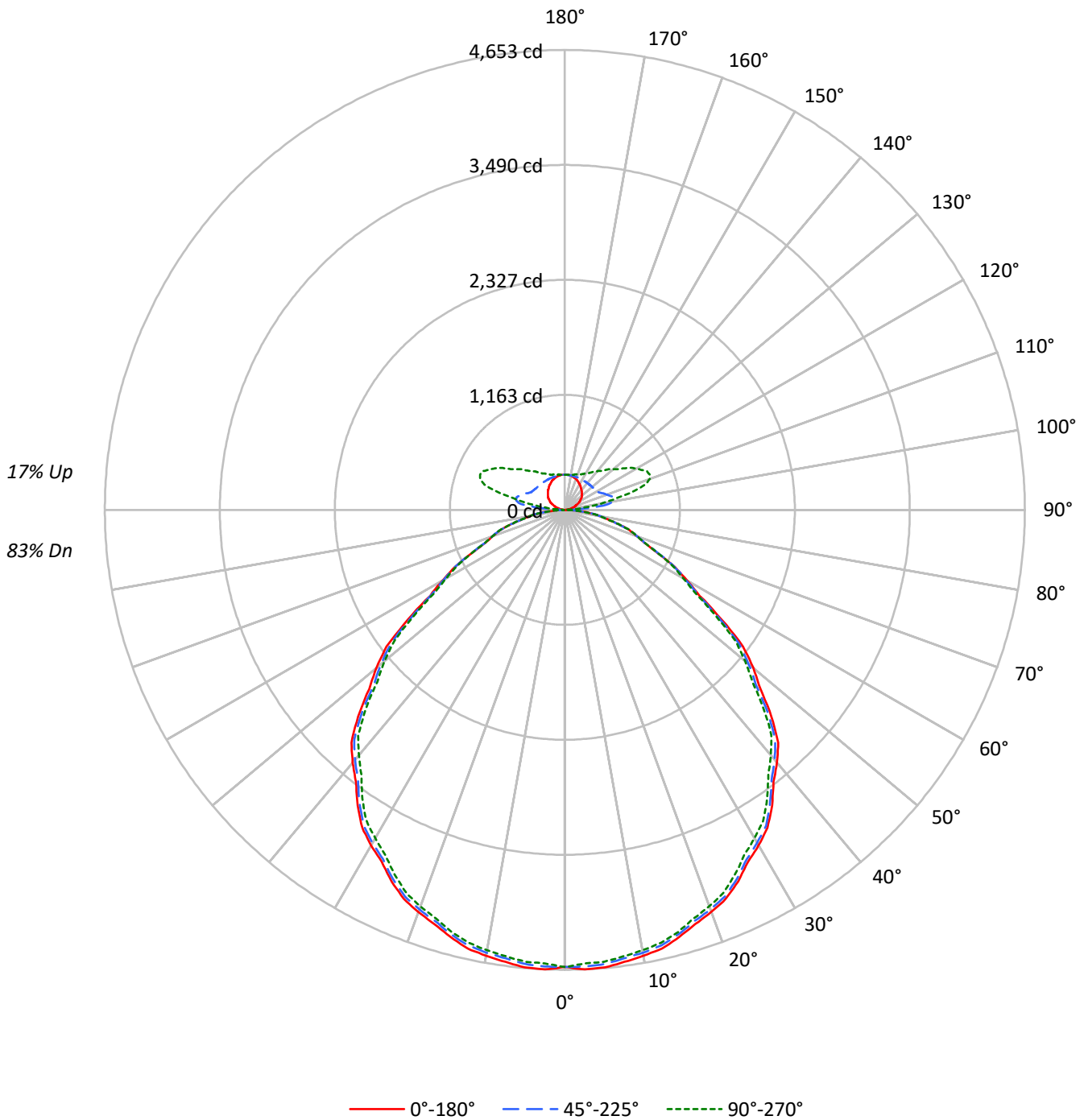
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	41	37	34				
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31				
8	60	47	39	33	57	46	38	33	43	36	32	41	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°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13400
40°	13401	13257	13017
45°	12855	12629	12370
50°	11892	11606	11377
55°	10380	10145	9931
60°	8746	8673	8502
65°	7565	7594	7537
70°	6949	6984	6984
75°	6673	6673	6721
80°	6278	6349	6278
85°	5060	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	3.2
10°-20°	1251.2	9.0
20°-30°	1887.3	13.6
30°-40°	2248.7	16.2
40°-50°	2217.0	16.0
50°-60°	1694.3	12.2
60°-70°	1048.5	7.6
70°-80°	595.5	4.3
80°-90°	183.1	1.3
90°-100°	173.4	1.3
100°-110°	455.8	3.3
110°-120°	472.7	3.4
120°-130°	379.1	2.7
130°-140°	297.5	2.1
140°-150°	228.3	1.6
150°-160°	164.5	1.2
160°-170°	100.6	0.7
170°-180°	34.0	0.2
0°-30°	3575.8	25.8
0°-40°	5824.5	42.0
0°-60°	9735.9	70.2
0°-90°	11563.0	83.4
90°-120°	1101.9	7.9
90°-150°	2006.9	14.5
90°-180°	2306.0	16.6
0°-180°	13868.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4625	4625	4625	4625	4625	
5°	4648	4598	4613	4597	4589	441
15°	4473	4426	4445	4429	4422	1262
25°	4147	4096	4119	4075	4071	1908
35°	3653	3610	3621	3573	3569	2280
45°	2956	2917	2904	2852	2844	2264
55°	1936	1905	1892	1860	1852	1735
65°	1040	1032	1044	1036	1036	1053
75°	562	562	562	566	566	593
85°	143	151	159	159	159	167
90°	2	7	18	9	9	8
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4624.6	4624.6	4624.6	4624.6	4624.6
2.5°	4653.3	4612.8	4624.6	4614.6	4592.8
5°	4648.5	4597.9	4612.7	4596.6	4588.8
7.5°	4612.7	4562.8	4577.6	4561.6	4556.9
10°	4580.8	4534.1	4549.0	4532.9	4525.1
12.5°	4545.8	4495.9	4513.9	4494.6	4486.8
15°	4473.3	4426.5	4445.4	4429.3	4421.5
17.5°	4393.6	4343.8	4362.5	4344.0	4333.9
20°	4329.9	4283.1	4302.0	4274.0	4270.1
22.5°	4259.8	4213.0	4231.9	4194.4	4193.6
25°	4146.6	4096.0	4118.8	4074.9	4071.0
27.5°	4012.0	3965.3	3984.1	3939.4	3934.7
30°	3919.6	3872.9	3891.7	3843.7	3835.9
32.5°	3814.4	3770.8	3786.6	3738.6	3734.0
35°	3652.7	3609.9	3620.8	3573.0	3569.1
37.5°	3468.7	3429.7	3436.0	3383.4	3379.5
40°	3338.0	3299.1	3302.2	3246.3	3242.4
42.5°	3194.6	3155.7	3152.4	3096.6	3092.7
45°	2955.6	2916.7	2903.8	2851.9	2844.1
47.5°	2683.2	2644.2	2620.2	2577.9	2572.4
50°	2485.6	2446.6	2425.8	2389.7	2378.0
52.5°	2272.1	2233.1	2215.5	2182.6	2170.9
55°	1935.9	1904.7	1892.1	1860.0	1852.2
57.5°	1616.4	1595.4	1591.7	1560.6	1557.5
60°	1422.0	1410.4	1410.1	1382.2	1382.2
62.5°	1256.3	1247.8	1254.0	1235.6	1232.4
65°	1039.6	1031.9	1043.6	1035.7	1035.7
67.5°	868.4	868.4	875.5	872.3	872.3
70°	772.8	772.8	776.7	776.7	776.7
72.5°	686.7	683.6	693.9	693.8	690.7
75°	561.6	561.6	561.6	565.6	565.6
77.5°	437.4	438.1	441.4	440.5	437.4
80°	354.5	358.4	358.5	354.5	354.5
82.5°	271.7	275.6	275.6	274.8	271.7
85°	143.4	151.2	159.3	159.3	159.3
87.5°	41.9	55.2	67.4	65.5	62.4
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)