

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: P564605

Luminaire Tested: **SQ4-PW1-025U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564605
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

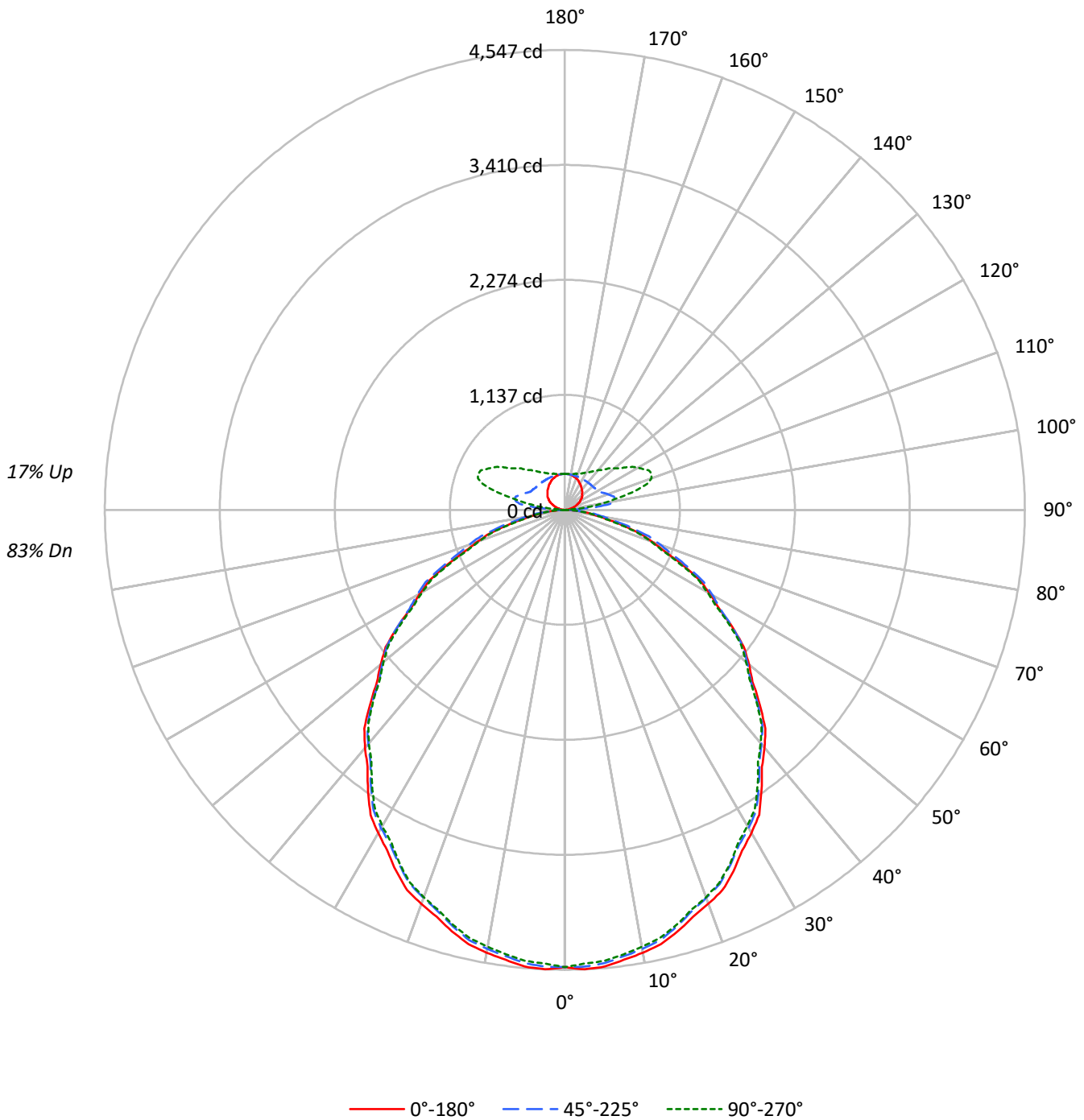
Lumens per Lamp: N/A
Luminaire Lumens: 13810.7 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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			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	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12472
40°	12330	12138	12090
45°	11850	11694	11642
50°	11359	11264	11187
55°	10829	10829	10658
60°	10168	10364	9996
65°	9305	9769	9073
70°	8202	8990	7987
75°	7005	8047	6816
80°	5432	6773	5503
85°	3515	5201	4640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	3.1
10°-20°	1202.0	8.7
20°-30°	1782.9	12.9
30°-40°	2086.2	15.1
40°-50°	2076.9	15.0
50°-60°	1793.5	13.0
60°-70°	1291.0	9.3
70°-80°	677.0	4.9
80°-90°	169.7	1.2
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	2.2
140°-150°	228.3	1.7
150°-160°	164.5	1.2
160°-170°	100.6	0.7
170°-180°	34.0	0.2
0°-30°	3410.6	24.7
0°-40°	5496.8	39.8
0°-60°	9367.1	67.8
0°-90°	11504.8	83.3
90°-120°	1101.9	8.0
90°-150°	2006.9	14.5
90°-180°	2306.0	16.7
0°-180°	13810.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4521	4521	4521	4521	4521	
5°	4533	4482	4497	4485	4477	429
15°	4314	4259	4266	4258	4250	1216
25°	3944	3877	3872	3848	3860	1813
35°	3390	3343	3342	3310	3322	2119
45°	2725	2701	2689	2681	2677	2102
55°	2020	2016	2020	1992	1988	1802
65°	1279	1318	1342	1290	1247	1267
75°	590	644	677	632	574	632
85°	100	131	147	139	132	131
90°	2	7	18	9	9	5
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°	4521.1	4521.1	4521.1	4521.1	4521.1
2.5°	4546.6	4509.2	4521.1	4511.0	4489.2
5°	4533.0	4482.4	4497.2	4485.1	4477.3
7.5°	4486.8	4440.1	4451.0	4438.1	4433.5
10°	4445.4	4398.7	4409.6	4393.4	4385.7
12.5°	4397.6	4347.8	4358.6	4342.5	4337.9
15°	4314.0	4259.4	4266.2	4258.0	4250.2
17.5°	4216.8	4161.5	4162.6	4149.8	4148.3
20°	4146.7	4088.2	4082.9	4067.2	4075.0
22.5°	4070.2	4008.6	4003.3	3981.2	3992.1
25°	3943.5	3877.3	3871.8	3848.2	3859.9
27.5°	3796.9	3731.5	3731.6	3698.4	3710.9
30°	3688.6	3626.3	3632.8	3593.3	3608.9
32.5°	3573.9	3517.8	3521.3	3481.8	3497.4
35°	3389.8	3343.1	3342.0	3310.4	3322.1
37.5°	3201.8	3160.5	3154.0	3135.8	3138.9
40°	3071.2	3036.1	3023.4	3011.4	3011.4
42.5°	2934.1	2902.2	2889.5	2880.7	2877.6
45°	2724.6	2701.2	2688.8	2680.7	2676.8
47.5°	2517.5	2495.7	2484.8	2479.1	2475.2
50°	2374.1	2358.5	2354.2	2342.1	2338.2
52.5°	2230.7	2221.3	2217.1	2201.9	2198.0
55°	2019.6	2015.7	2019.6	1991.6	1987.7
57.5°	1799.7	1805.9	1818.8	1781.1	1771.8
60°	1653.1	1668.7	1685.0	1640.8	1625.2
62.5°	1503.3	1528.2	1551.1	1500.4	1478.6
65°	1278.7	1317.6	1342.4	1289.6	1246.8
67.5°	1062.0	1110.3	1140.0	1083.2	1034.9
70°	912.2	966.7	999.8	942.8	888.3
72.5°	781.5	842.3	869.2	815.3	760.8
75°	589.5	644.1	677.2	632.0	573.6
77.5°	418.3	469.7	497.1	457.8	409.5
80°	306.7	361.2	382.4	349.6	310.7
82.5°	217.5	262.7	277.2	257.5	231.0
85°	99.6	130.7	147.4	139.2	131.5
87.5°	25.9	48.7	64.2	62.4	65.6
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)