

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: P564597

Luminaire Tested: **SQ4-PW1-025U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564597
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17355.4 lumens
Efficiency: N/A
Efficacy: 111.1 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

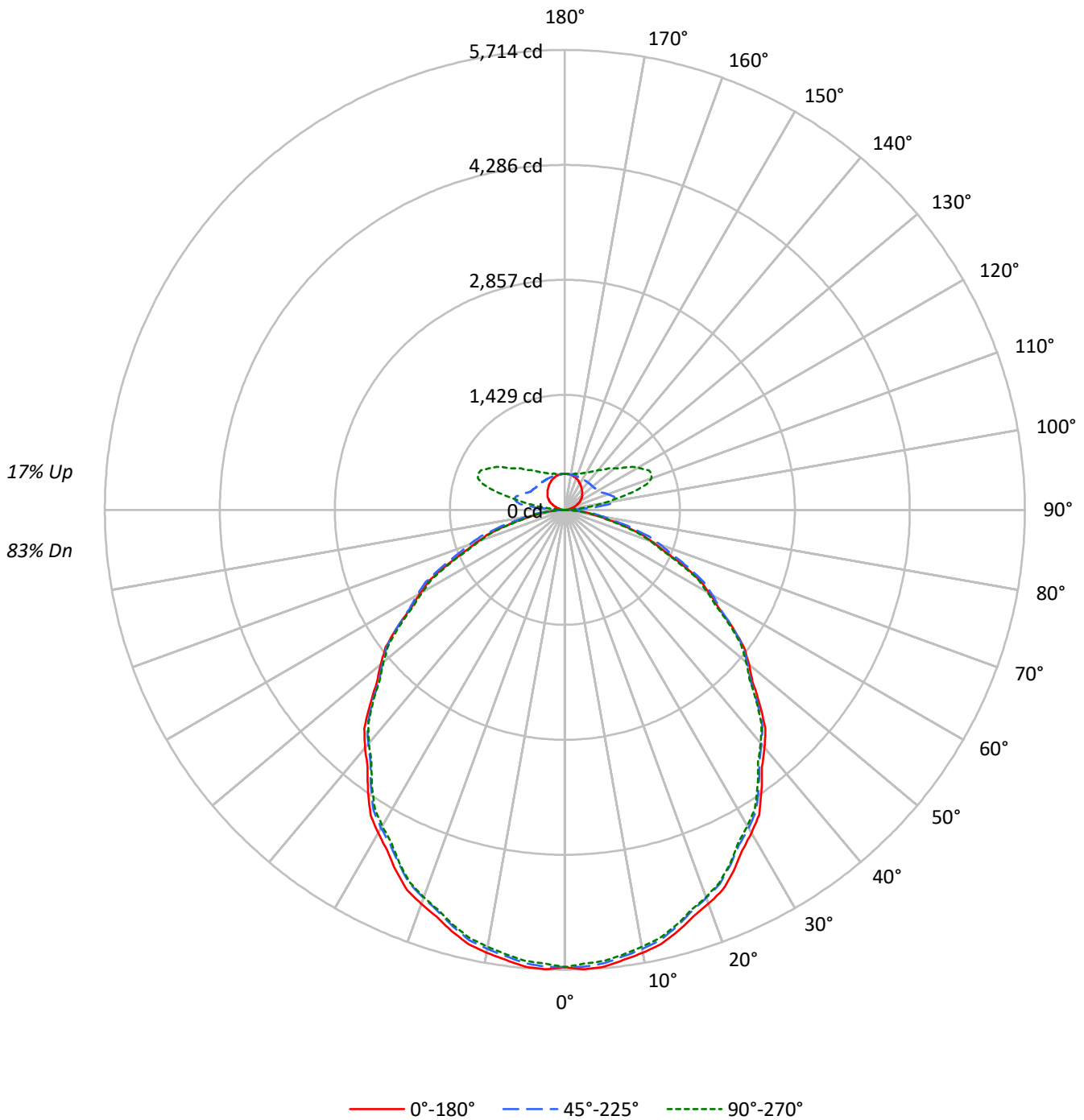
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17005
20°	17054	16792	16760
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14891	14696	14631
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10307	11297	10038
75°	8803	10112	8565
80°	6826	8512	6914
85°	4414	6535	5829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	3.1
10°-20°	1510.5	8.7
20°-30°	2240.5	12.9
30°-40°	2621.6	15.1
40°-50°	2609.9	15.0
50°-60°	2253.8	13.0
60°-70°	1622.3	9.3
70°-80°	850.7	4.9
80°-90°	213.3	1.2
90°-100°	217.9	1.3
100°-110°	572.8	3.3
110°-120°	594.0	3.4
120°-130°	476.5	2.7
130°-140°	373.8	2.2
140°-150°	286.9	1.7
150°-160°	206.7	1.2
160°-170°	126.4	0.7
170°-180°	42.7	0.2
0°-30°	4286.0	24.7
0°-40°	6907.6	39.8
0°-60°	11771.3	67.8
0°-90°	14457.7	83.3
90°-120°	1384.7	8.0
90°-150°	2521.9	14.5
90°-180°	2898.0	16.7
0°-180°	17355.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5682	5682	5682	5682	5682	
5°	5696	5633	5652	5636	5626	540
15°	5421	5353	5361	5351	5341	1528
25°	4956	4872	4866	4836	4851	2279
35°	4260	4201	4200	4160	4175	2663
45°	3424	3395	3379	3369	3364	2642
55°	2538	2533	2538	2503	2498	2264
65°	1607	1656	1687	1621	1567	1592
75°	741	809	851	794	721	794
85°	125	164	185	175	165	165
90°	3	8	23	12	12	7
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

TEST NUMBER: P564597

CATALOG NUMBER: SQ4-PW1-025U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5681.5	5681.5	5681.5	5681.5	5681.5
2.5°	5713.5	5666.6	5681.5	5668.9	5641.5
5°	5696.5	5632.9	5651.5	5636.2	5626.4
7.5°	5638.5	5579.7	5593.4	5577.3	5571.4
10°	5586.4	5527.7	5541.4	5521.1	5511.3
12.5°	5526.3	5463.7	5477.3	5457.1	5451.2
15°	5421.2	5352.7	5361.1	5350.9	5341.1
17.5°	5299.1	5229.6	5231.0	5214.9	5213.0
20°	5211.0	5137.6	5130.9	5111.1	5120.9
22.5°	5114.9	5037.5	5030.8	5003.0	5016.8
25°	4955.7	4872.5	4865.6	4835.9	4850.6
27.5°	4771.5	4689.2	4689.4	4647.7	4663.3
30°	4635.3	4557.0	4565.2	4515.6	4535.2
32.5°	4491.1	4420.7	4425.1	4375.5	4395.0
35°	4259.9	4201.1	4199.8	4160.1	4174.8
37.5°	4023.6	3971.7	3963.5	3940.6	3944.5
40°	3859.4	3815.4	3799.4	3784.3	3784.3
42.5°	3687.2	3647.1	3631.2	3620.1	3616.1
45°	3423.9	3394.6	3378.9	3368.8	3363.9
47.5°	3163.6	3136.2	3122.6	3115.5	3110.6
50°	2983.4	2963.8	2958.4	2943.3	2938.4
52.5°	2803.2	2791.5	2786.2	2767.1	2762.2
55°	2537.9	2533.0	2537.9	2502.8	2497.9
57.5°	2261.6	2269.4	2285.6	2238.3	2226.6
60°	2077.4	2097.0	2117.4	2061.9	2042.3
62.5°	1889.2	1920.5	1949.2	1885.5	1858.1
65°	1606.8	1655.8	1686.9	1620.6	1566.8
67.5°	1334.5	1395.2	1432.6	1361.2	1300.5
70°	1146.3	1214.8	1256.4	1184.8	1116.3
72.5°	982.1	1058.5	1092.3	1024.6	956.1
75°	740.8	809.4	851.0	794.2	720.8
77.5°	525.6	590.2	624.7	575.3	514.6
80°	385.4	454.0	480.6	439.4	390.4
82.5°	273.3	330.1	348.4	323.6	290.3
85°	125.1	164.3	185.2	175.0	165.2
87.5°	32.6	61.1	80.7	78.5	82.4
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3

TEST NUMBER: P564597

CATALOG NUMBER: SQ4-PW1-025U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)