

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: P564596

Luminaire Tested: **SQ4-PW1-025U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564596
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-830-1D-UNV-STD-W-8
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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

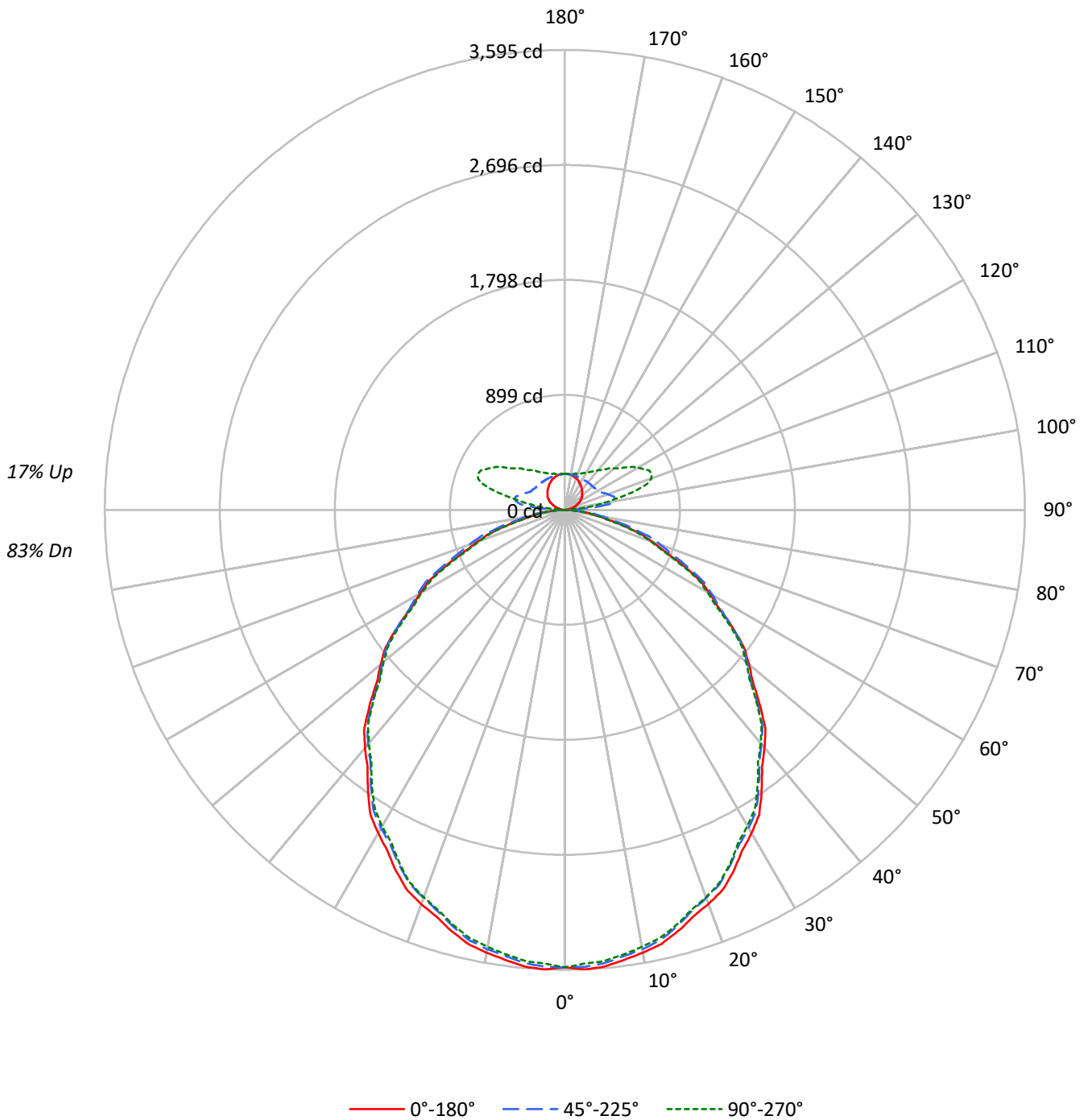
Lumens per Lamp: N/A
Luminaire Lumens: 10921.1 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	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°	16493	16493	16493
5°	16599	16468	16395
10°	16467	16334	16246
15°	16292	16112	16052
20°	16098	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9545	8085
80°	6442	8033	6527
85°	4166	6166	5499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	3.1
10°-20°	950.5	8.7
20°-30°	1409.9	12.9
30°-40°	1649.7	15.1
40°-50°	1642.3	15.0
50°-60°	1418.2	13.0
60°-70°	1020.9	9.3
70°-80°	535.3	4.9
80°-90°	134.2	1.2
90°-100°	137.1	1.3
100°-110°	360.4	3.3
110°-120°	373.8	3.4
120°-130°	299.8	2.7
130°-140°	235.2	2.2
140°-150°	180.5	1.7
150°-160°	130.0	1.2
160°-170°	79.6	0.7
170°-180°	26.9	0.2
0°-30°	2697.0	24.7
0°-40°	4346.7	39.8
0°-60°	7407.2	67.8
0°-90°	9097.7	83.3
90°-120°	871.3	8.0
90°-150°	1586.9	14.5
90°-180°	1823.0	16.7
0°-180°	10921.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3575	3575	3575	3575	3575	
5°	3585	3545	3556	3547	3540	340
15°	3411	3368	3374	3367	3361	962
25°	3118	3066	3062	3043	3052	1434
35°	2681	2644	2643	2618	2627	1676
45°	2154	2136	2126	2120	2117	1662
55°	1597	1594	1597	1575	1572	1425
65°	1011	1042	1062	1020	986	1002
75°	466	509	536	500	454	500
85°	79	103	116	110	104	104
90°	2	5	14	7	7	4
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	

TEST NUMBER: P564596

CATALOG NUMBER: SQ4-PW1-025U-125D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3595.3	3565.7	3575.2	3567.2	3550.0
5°	3584.6	3544.6	3556.3	3546.7	3540.5
7.5°	3548.1	3511.1	3519.7	3509.6	3505.9
10°	3515.3	3478.4	3487.0	3474.2	3468.1
12.5°	3477.5	3438.1	3446.6	3434.0	3430.3
15°	3411.4	3368.2	3373.6	3367.1	3361.0
17.5°	3334.5	3290.8	3291.7	3281.6	3280.3
20°	3279.1	3232.9	3228.7	3216.2	3222.4
22.5°	3218.6	3169.9	3165.7	3148.2	3156.8
25°	3118.4	3066.1	3061.7	3043.0	3052.3
27.5°	3002.5	2950.8	2950.8	2924.6	2934.5
30°	2916.8	2867.5	2872.7	2841.5	2853.8
32.5°	2826.1	2781.8	2784.5	2753.3	2765.6
35°	2680.6	2643.6	2642.8	2617.8	2627.0
37.5°	2531.9	2499.3	2494.1	2479.7	2482.1
40°	2428.6	2400.9	2390.8	2381.3	2381.3
42.5°	2320.2	2295.0	2285.0	2278.0	2275.5
45°	2154.5	2136.1	2126.2	2119.8	2116.7
47.5°	1990.7	1973.5	1964.9	1960.4	1957.4
50°	1877.4	1865.0	1861.6	1852.1	1849.0
52.5°	1764.0	1756.6	1753.2	1741.2	1738.1
55°	1597.0	1593.9	1597.0	1574.9	1571.8
57.5°	1423.1	1428.1	1438.3	1408.5	1401.1
60°	1307.2	1319.5	1332.4	1297.5	1285.2
62.5°	1188.8	1208.5	1226.6	1186.5	1169.2
65°	1011.1	1041.9	1061.5	1019.8	985.9
67.5°	839.8	878.0	901.5	856.5	818.3
70°	721.3	764.5	790.6	745.6	702.4
72.5°	618.0	666.1	687.3	644.8	601.6
75°	466.2	509.3	535.5	499.8	453.6
77.5°	330.7	371.4	393.1	362.0	323.8
80°	242.5	285.7	302.4	276.5	245.7
82.5°	172.0	207.7	219.2	203.6	182.7
85°	78.7	103.4	116.5	110.1	103.9
87.5°	20.5	38.5	50.8	49.4	51.8
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4

TEST NUMBER: P564596

CATALOG NUMBER: SQ4-PW1-025U-125D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)