

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: P563928

Luminaire Tested: **SQ4-PR1-025U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563928
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

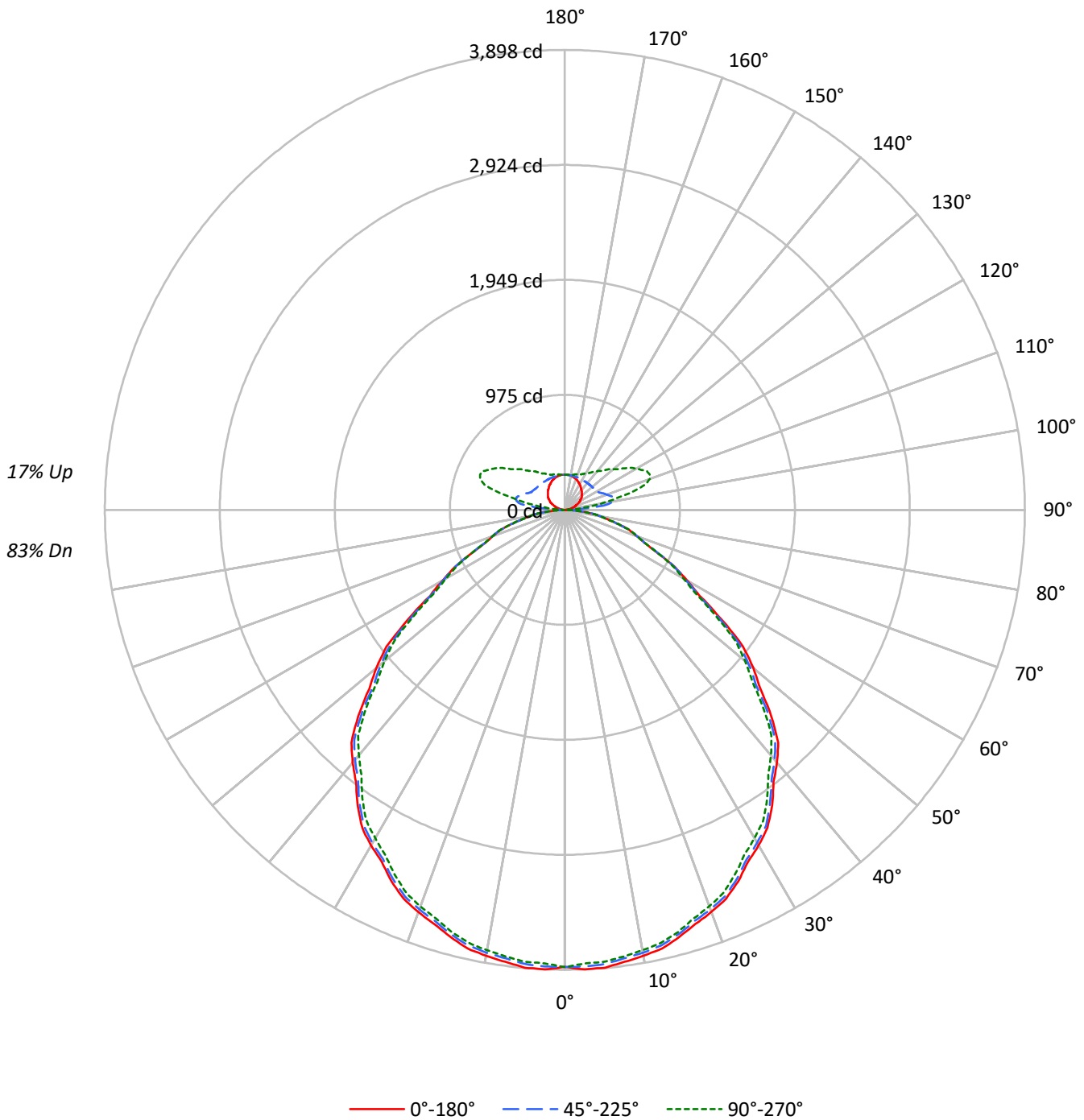
Lumens per Lamp: N/A
Luminaire Lumens: 11619.1 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	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°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17787	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17234	17083	16839
40°	16840	16660	16358
45°	16155	15871	15545
50°	14945	14585	14298
55°	13044	12748	12481
60°	10992	10900	10684
65°	9507	9543	9471
70°	8732	8777	8777
75°	8386	8386	8447
80°	7890	7978	7890
85°	6357	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	3.2
10°-20°	1048.3	9.0
20°-30°	1581.1	13.6
30°-40°	1883.9	16.2
40°-50°	1857.4	16.0
50°-60°	1419.5	12.2
60°-70°	878.4	7.6
70°-80°	498.9	4.3
80°-90°	153.4	1.3
90°-100°	145.3	1.3
100°-110°	381.9	3.3
110°-120°	396.0	3.4
120°-130°	317.6	2.7
130°-140°	249.2	2.1
140°-150°	191.3	1.6
150°-160°	137.8	1.2
160°-170°	84.3	0.7
170°-180°	28.5	0.2
0°-30°	2995.8	25.8
0°-40°	4879.7	42.0
0°-60°	8156.5	70.2
0°-90°	9687.3	83.4
90°-120°	923.2	7.9
90°-150°	1681.3	14.5
90°-180°	1932.0	16.6
0°-180°	11619.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3874	3874	3874	3874	3874	
5°	3894	3852	3864	3851	3844	369
15°	3748	3708	3724	3711	3704	1058
25°	3474	3432	3451	3414	3411	1599
35°	3060	3024	3034	2993	2990	1910
45°	2476	2444	2433	2389	2383	1897
55°	1622	1596	1585	1558	1552	1453
65°	871	864	874	868	868	882
75°	470	470	470	474	474	497
85°	120	127	134	134	134	140
90°	2	6	15	8	8	6
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3874.4	3874.4	3874.4	3874.4	3874.4
2.5°	3898.5	3864.5	3874.4	3866.0	3847.7
5°	3894.5	3852.0	3864.4	3850.9	3844.4
7.5°	3864.4	3822.7	3835.1	3821.6	3817.7
10°	3837.7	3798.6	3811.0	3797.5	3791.0
12.5°	3808.4	3766.6	3781.7	3765.5	3759.0
15°	3747.6	3708.5	3724.3	3710.8	3704.2
17.5°	3680.9	3639.1	3654.8	3639.3	3630.8
20°	3627.5	3588.3	3604.1	3580.7	3577.4
22.5°	3568.7	3529.6	3545.4	3514.0	3513.4
25°	3474.0	3431.6	3450.6	3413.8	3410.6
27.5°	3361.2	3322.0	3337.8	3300.4	3296.4
30°	3283.8	3244.6	3260.4	3220.2	3213.7
32.5°	3195.7	3159.1	3172.3	3132.2	3128.2
35°	3060.2	3024.3	3033.5	2993.3	2990.1
37.5°	2906.0	2873.4	2878.6	2834.5	2831.2
40°	2796.5	2763.9	2766.5	2719.7	2716.4
42.5°	2676.4	2643.8	2641.0	2594.2	2591.0
45°	2476.2	2443.5	2432.8	2389.3	2382.7
47.5°	2247.9	2215.3	2195.2	2159.7	2155.1
50°	2082.4	2049.8	2032.3	2002.1	1992.3
52.5°	1903.5	1870.9	1856.1	1828.5	1818.7
55°	1621.9	1595.8	1585.1	1558.3	1551.8
57.5°	1354.2	1336.6	1333.5	1307.4	1304.8
60°	1191.4	1181.6	1181.4	1158.0	1158.0
62.5°	1052.5	1045.4	1050.5	1035.1	1032.5
65°	871.0	864.5	874.3	867.7	867.7
67.5°	727.5	727.5	733.5	730.8	730.8
70°	647.4	647.4	650.7	650.7	650.7
72.5°	575.3	572.7	581.3	581.3	578.7
75°	470.5	470.5	470.5	473.9	473.9
77.5°	366.4	367.1	369.8	369.0	366.4
80°	297.0	300.3	300.3	297.0	297.0
82.5°	227.6	230.9	230.9	230.2	227.6
85°	120.1	126.7	133.5	133.5	133.5
87.5°	35.1	46.3	56.5	54.9	52.3
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)