

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: P563252

Luminaire Tested: **SQ4-PP3-025U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563252
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

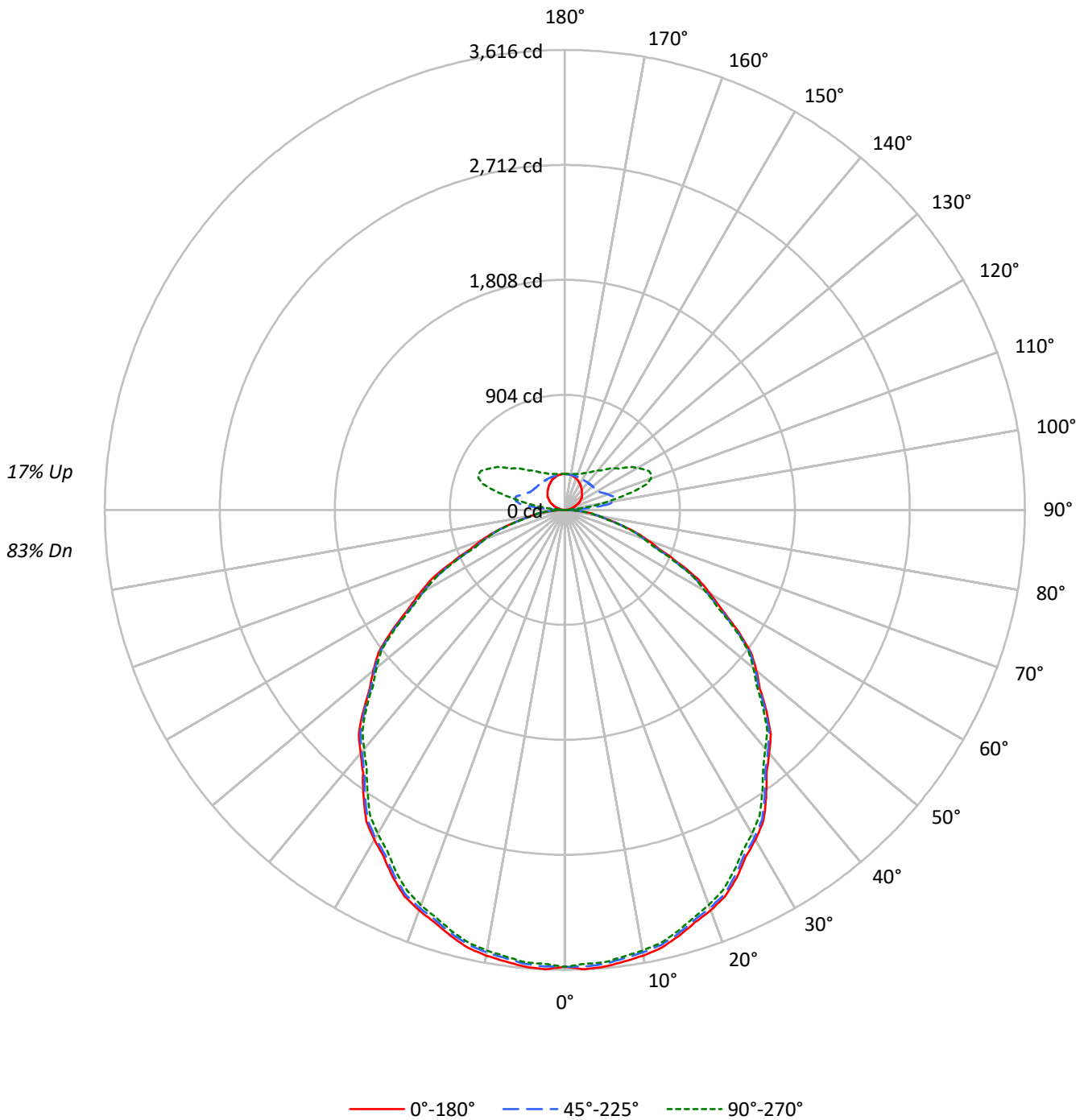
Lumens per Lamp: N/A
Luminaire Lumens: 11021.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	111	111	111	111	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	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16596	16537
10°	16669	16551	16477
15°	16559	16469	16378
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13196	13094
60°	12174	11825	11767
65°	10725	10278	10244
70°	9259	8878	8878
75°	7971	7858	7746
80°	7027	7112	6944
85°	5499	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	3.1
10°-20°	970.2	8.8
20°-30°	1453.2	13.2
30°-40°	1704.5	15.5
40°-50°	1709.8	15.5
50°-60°	1458.6	13.2
60°-70°	951.3	8.6
70°-80°	477.3	4.3
80°-90°	133.6	1.2
90°-100°	137.1	1.2
100°-110°	360.4	3.3
110°-120°	373.8	3.4
120°-130°	299.8	2.7
130°-140°	235.2	2.1
140°-150°	180.5	1.6
150°-160°	130.0	1.2
160°-170°	79.6	0.7
170°-180°	26.9	0.2
0°-30°	2763.1	25.1
0°-40°	4467.6	40.5
0°-60°	7636.0	69.3
0°-90°	9198.2	83.5
90°-120°	871.3	7.9
90°-150°	1586.9	14.4
90°-180°	1823.0	16.5
0°-180°	11021.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3593	3593	3593	3593	3593	
5°	3606	3572	3584	3571	3571	342
15°	3467	3433	3448	3436	3429	978
25°	3193	3156	3171	3143	3140	1468
35°	2759	2731	2740	2708	2705	1723
45°	2242	2227	2226	2204	2204	1726
55°	1663	1657	1641	1631	1628	1478
65°	982	964	942	935	938	981
75°	447	447	441	438	435	485
85°	104	113	113	113	113	122
90°	2	5	14	7	7	5
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3593.2	3593.2	3593.2	3593.2	3593.2
2.5°	3615.9	3586.3	3593.2	3587.8	3573.0
5°	3605.8	3571.9	3583.8	3571.2	3571.2
7.5°	3581.2	3544.3	3556.0	3543.4	3542.8
10°	3558.6	3521.6	3533.4	3520.7	3517.6
12.5°	3525.8	3488.9	3503.1	3488.0	3487.4
15°	3467.2	3433.4	3448.3	3435.6	3429.4
17.5°	3401.1	3364.2	3382.2	3364.5	3362.1
20°	3350.7	3313.8	3331.8	3306.6	3306.6
22.5°	3290.3	3253.3	3273.9	3241.1	3241.1
25°	3193.3	3156.3	3171.2	3142.8	3139.7
27.5°	3078.0	3041.7	3057.2	3025.1	3024.5
30°	2994.9	2961.0	2979.1	2944.4	2941.3
32.5°	2904.2	2872.8	2885.9	2851.2	2848.1
35°	2758.7	2731.0	2739.8	2708.2	2705.1
37.5°	2605.6	2577.3	2587.4	2560.2	2559.0
40°	2497.3	2478.8	2481.5	2459.4	2453.2
42.5°	2396.5	2375.6	2378.3	2356.2	2354.9
45°	2242.2	2226.8	2226.5	2204.4	2204.4
47.5°	2078.5	2066.8	2063.3	2045.1	2044.4
50°	1965.1	1955.8	1952.5	1936.7	1933.6
52.5°	1846.7	1842.4	1831.6	1818.3	1817.7
55°	1662.8	1656.6	1640.7	1631.2	1628.1
57.5°	1463.1	1450.8	1432.9	1419.1	1421.5
60°	1319.5	1307.2	1281.7	1275.4	1275.4
62.5°	1180.9	1166.2	1140.6	1131.9	1136.9
65°	982.5	964.1	941.6	935.4	938.5
67.5°	802.4	785.8	761.5	761.4	759.0
70°	686.5	677.3	658.2	658.2	658.2
72.5°	583.2	578.9	565.0	564.9	562.4
75°	447.2	447.2	440.9	437.7	434.6
77.5°	335.1	336.3	333.2	329.9	324.4
80°	264.5	270.7	267.7	264.5	261.4
82.5°	199.0	205.2	204.7	199.0	198.4
85°	103.9	113.2	113.4	113.4	113.4
87.5°	28.1	38.6	43.2	41.8	44.3
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



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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)