

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: P562596

Luminaire Tested: **SQ4-PC3-025U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562596
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

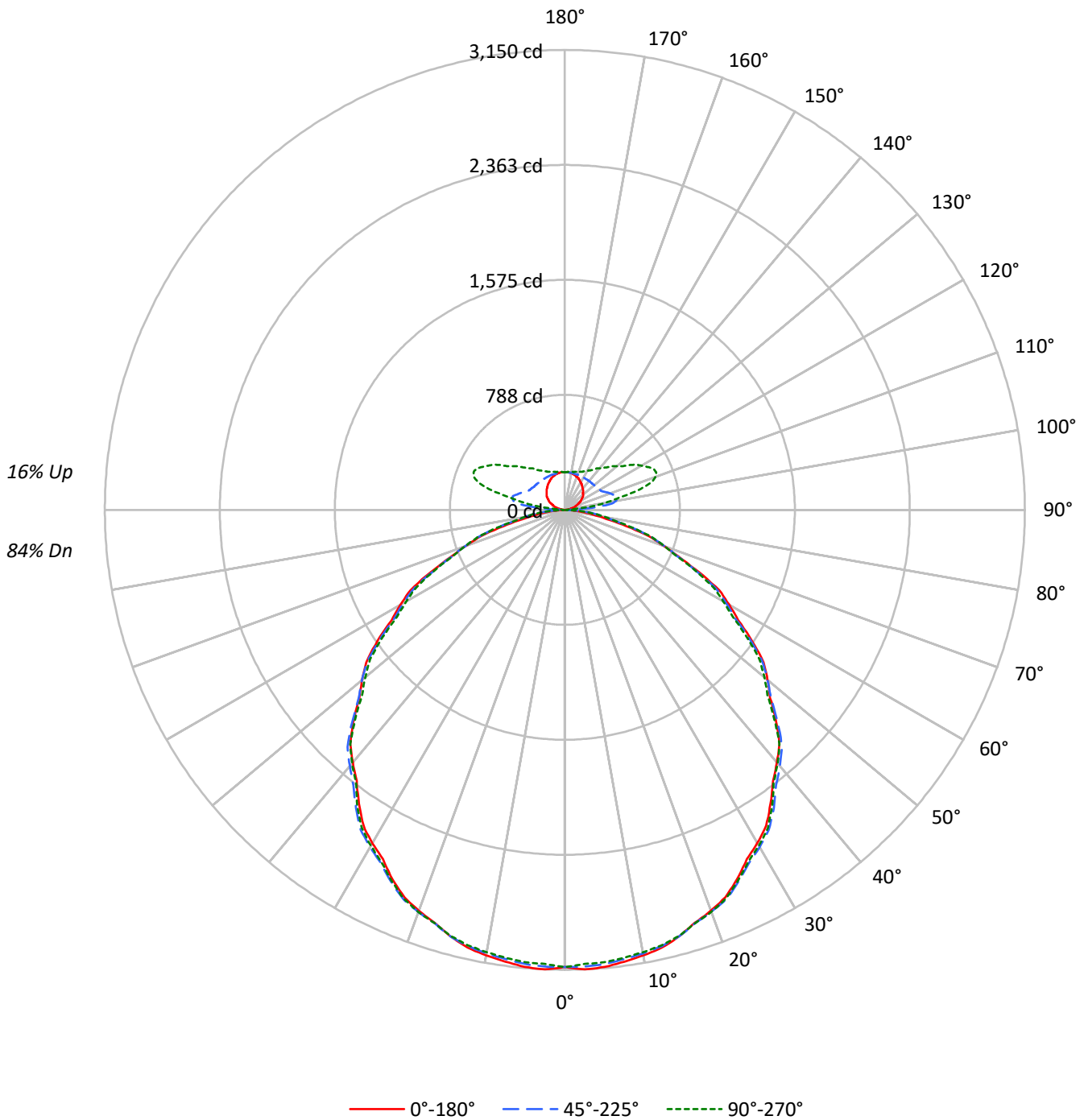
Lumens per Lamp: N/A
Luminaire Lumens: 10226.7 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	76	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	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12243
60°	11985	11744	11557
65°	11078	10857	10762
70°	9699	9777	9738
75°	7803	8630	8682
80°	5547	7319	7396
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	2.9
10°-20°	850.5	8.3
20°-30°	1288.0	12.6
30°-40°	1544.1	15.1
40°-50°	1574.5	15.4
50°-60°	1374.4	13.4
60°-70°	984.0	9.6
70°-80°	506.8	5.0
80°-90°	129.6	1.3
90°-100°	126.2	1.2
100°-110°	331.8	3.2
110°-120°	344.1	3.4
120°-130°	276.0	2.7
130°-140°	216.6	2.1
140°-150°	166.2	1.6
150°-160°	119.7	1.2
160°-170°	73.2	0.7
170°-180°	24.7	0.2
0°-30°	2434.8	23.8
0°-40°	3979.0	38.9
0°-60°	6927.8	67.7
0°-90°	8548.1	83.6
90°-120°	802.1	7.8
90°-150°	1460.9	14.3
90°-180°	1679.0	16.4
0°-180°	10226.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3132	3132	3132	3132	3132	
5°	3143	3112	3123	3114	3111	298
15°	3024	2999	3024	3024	3021	853
25°	2792	2772	2813	2804	2804	1285
35°	2456	2450	2494	2476	2476	1536
45°	2047	2042	2062	2035	2030	1576
55°	1566	1546	1546	1522	1522	1396
65°	1015	992	995	986	986	1004
75°	438	458	484	487	487	473
85°	64	98	116	119	116	87
90°	2	5	13	7	7	4
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3131.6	3131.6	3131.6	3131.6	3131.6
2.5°	3150.2	3122.9	3131.6	3124.4	3113.0
5°	3143.2	3112.0	3122.9	3114.1	3111.3
7.5°	3120.6	3089.4	3103.8	3097.9	3095.1
10°	3099.7	3068.5	3085.2	3079.3	3076.5
12.5°	3071.9	3043.0	3062.0	3056.2	3055.6
15°	3024.3	2998.8	3024.3	3024.3	3021.4
17.5°	2964.6	2941.3	2968.6	2970.3	2968.6
20°	2922.8	2897.3	2931.5	2928.7	2931.5
22.5°	2871.8	2850.8	2887.5	2880.0	2882.8
25°	2792.3	2772.5	2812.6	2803.9	2803.9
27.5°	2698.4	2684.2	2728.0	2718.7	2718.7
30°	2635.8	2621.6	2667.7	2656.1	2656.1
32.5°	2566.2	2556.5	2600.4	2586.5	2586.5
35°	2456.0	2450.3	2493.7	2476.3	2476.3
37.5°	2342.3	2337.2	2376.5	2355.5	2348.7
40°	2258.8	2256.0	2290.7	2267.5	2267.5
42.5°	2175.3	2172.5	2202.6	2174.7	2174.7
45°	2047.1	2041.5	2061.6	2035.4	2029.7
47.5°	1907.4	1901.7	1914.3	1885.9	1883.0
50°	1812.3	1806.6	1812.3	1786.1	1783.3
52.5°	1714.8	1704.6	1705.6	1679.5	1678.9
55°	1565.8	1546.0	1545.5	1522.3	1522.3
57.5°	1408.1	1382.0	1384.3	1364.5	1361.7
60°	1299.0	1270.7	1272.9	1255.5	1252.6
62.5°	1192.3	1159.4	1166.2	1146.5	1145.9
65°	1014.9	992.2	994.6	985.9	985.9
67.5°	844.4	823.4	838.6	831.6	831.0
70°	719.1	704.9	724.9	724.8	722.0
72.5°	603.1	602.6	627.5	627.5	629.2
75°	437.8	457.7	484.2	487.1	487.1
77.5°	292.3	327.4	356.7	357.8	357.2
80°	208.8	248.5	275.5	281.2	278.4
82.5°	141.5	183.5	205.9	211.6	208.8
85°	63.8	97.8	116.0	118.8	116.0
87.5°	18.9	40.0	49.1	47.6	43.1
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)