

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: P563221

Luminaire Tested: **SQ4-PP3-025U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563221
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-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9983.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

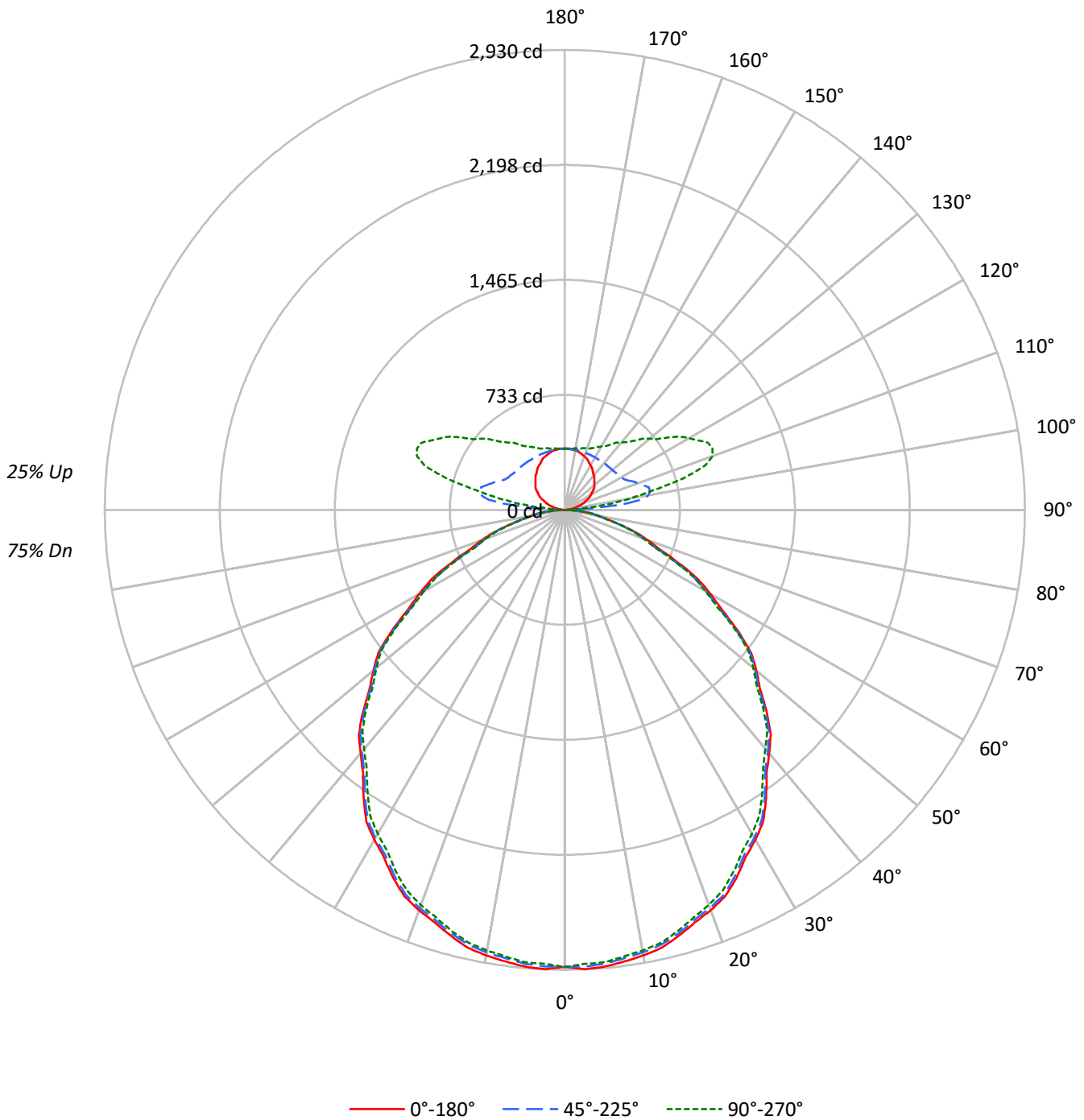
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	77	73	75	71	67	69	65	62	62	59	57	54				
3	86	77	69	63	82	73	67	61	67	61	57	61	56	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	60	53	49	54	49	45	49	45	42	39				
5	73	61	53	46	69	58	51	45	53	47	42	49	44	39	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	27				
8	58	45	37	32	55	43	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8391	8334	8228
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6388	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4305	4244	4184
80°	3795	3841	3751
85°	2971	3243	3243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	2.8
10°-20°	786.0	7.9
20°-30°	1177.4	11.8
30°-40°	1381.0	13.8
40°-50°	1385.3	13.9
50°-60°	1181.8	11.8
60°-70°	770.7	7.7
70°-80°	386.7	3.9
80°-90°	109.1	1.1
90°-100°	190.3	1.9
100°-110°	500.2	5.0
110°-120°	518.7	5.2
120°-130°	416.0	4.2
130°-140°	326.4	3.3
140°-150°	250.5	2.5
150°-160°	180.4	1.8
160°-170°	110.4	1.1
170°-180°	37.3	0.4
0°-30°	2238.7	22.4
0°-40°	3619.7	36.3
0°-60°	6186.8	62.0
0°-90°	7453.3	74.7
90°-120°	1209.1	12.1
90°-150°	2202.1	22.1
90°-180°	2530.0	25.3
0°-180°	9983.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2922	2894	2904	2893	2893	277
15°	2809	2782	2794	2784	2779	793
25°	2587	2557	2569	2546	2544	1190
35°	2235	2213	2220	2194	2192	1396
45°	1817	1804	1804	1786	1786	1399
55°	1347	1342	1329	1322	1319	1197
65°	796	781	763	758	760	794
75°	362	362	357	355	352	393
85°	84	92	92	92	92	99
90°	2	7	20	10	10	5
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2929.6	2905.7	2911.3	2906.9	2894.9
5°	2921.5	2894.0	2903.6	2893.4	2893.4
7.5°	2901.6	2871.6	2881.2	2870.9	2870.4
10°	2883.2	2853.3	2862.8	2852.5	2850.0
12.5°	2856.7	2826.7	2838.3	2826.0	2825.5
15°	2809.2	2781.8	2793.9	2783.6	2778.6
17.5°	2755.6	2725.7	2740.3	2726.0	2724.0
20°	2714.8	2684.9	2699.5	2679.1	2679.1
22.5°	2665.8	2635.9	2652.5	2626.0	2626.0
25°	2587.2	2557.3	2569.4	2546.3	2543.8
27.5°	2493.8	2464.4	2477.0	2451.0	2450.5
30°	2426.5	2399.0	2413.7	2385.6	2383.1
32.5°	2353.0	2327.5	2338.2	2310.1	2307.6
35°	2235.1	2212.7	2219.8	2194.2	2191.7
37.5°	2111.1	2088.2	2096.3	2074.3	2073.4
40°	2023.3	2008.4	2010.6	1992.6	1987.6
42.5°	1941.7	1924.7	1926.9	1909.0	1908.0
45°	1816.7	1804.2	1803.9	1786.1	1786.1
47.5°	1684.0	1674.5	1671.7	1656.9	1656.4
50°	1592.1	1584.7	1581.9	1569.1	1566.6
52.5°	1496.2	1492.7	1484.0	1473.2	1472.7
55°	1347.2	1342.2	1329.3	1321.6	1319.1
57.5°	1185.4	1175.4	1160.9	1149.8	1151.7
60°	1069.1	1059.1	1038.5	1033.4	1033.4
62.5°	956.8	944.8	924.2	917.1	921.1
65°	796.1	781.1	762.9	757.9	760.3
67.5°	650.1	636.7	617.0	616.9	614.9
70°	556.2	548.7	533.3	533.3	533.3
72.5°	472.5	469.0	457.7	457.7	455.7
75°	362.3	362.3	357.2	354.6	352.1
77.5°	271.5	272.5	269.9	267.3	262.8
80°	214.3	219.3	216.9	214.3	211.8
82.5°	161.3	166.2	165.8	161.2	160.7
85°	84.2	91.7	91.9	91.9	91.9
87.5°	23.0	31.9	36.7	34.7	36.7
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)