

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: P563271

Luminaire Tested: **SQ4-PP3-025U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563271
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

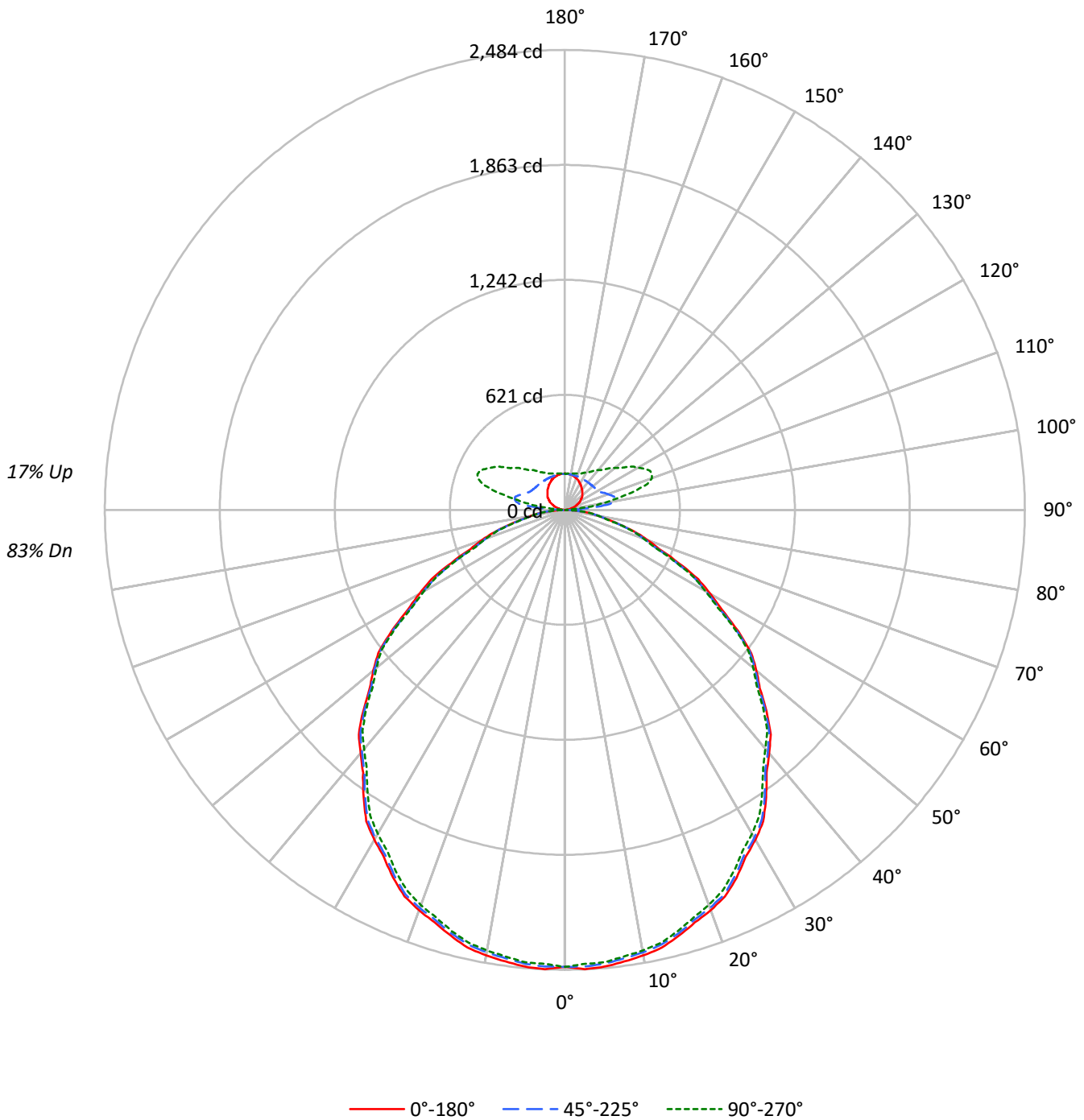
Lumens per Lamp: N/A
Luminaire Lumens: 7583.3 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	106	101	97	94	101	97	94	91	90	87	85	83	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	65	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	54	50	46	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	44	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	43	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	32	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°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14887	14783	14637
30°	14611	14534	14350
35°	14228	14131	13953
40°	13773	13687	13530
45°	13398	13304	13171
50°	12916	12834	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7196	7094
80°	6436	6514	6358
85°	5039	5498	5498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	3.1
10°-20°	666.4	8.8
20°-30°	998.2	13.2
30°-40°	1170.8	15.4
40°-50°	1174.5	15.5
50°-60°	1001.9	13.2
60°-70°	653.4	8.6
70°-80°	327.8	4.3
80°-90°	91.8	1.2
90°-100°	95.1	1.3
100°-110°	250.1	3.3
110°-120°	259.3	3.4
120°-130°	208.0	2.7
130°-140°	163.2	2.2
140°-150°	125.3	1.7
150°-160°	90.2	1.2
160°-170°	55.2	0.7
170°-180°	18.6	0.2
0°-30°	1898.0	25.0
0°-40°	3068.8	40.5
0°-60°	5245.2	69.2
0°-90°	6318.2	83.3
90°-120°	604.6	8.0
90°-150°	1101.1	14.5
90°-180°	1265.0	16.7
0°-180°	7583.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2477	2454	2462	2453	2453	235
15°	2382	2358	2369	2360	2356	672
25°	2194	2168	2178	2159	2157	1009
35°	1895	1876	1882	1860	1858	1184
45°	1540	1530	1529	1514	1514	1186
55°	1142	1138	1127	1120	1118	1015
65°	675	662	647	642	645	674
75°	307	307	303	301	298	333
85°	71	78	78	78	78	84
90°	1	4	10	5	5	4
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2468.2	2468.2	2468.2	2468.2	2468.2
2.5°	2483.7	2463.4	2468.2	2464.5	2454.3
5°	2476.8	2453.6	2461.7	2453.0	2453.0
7.5°	2460.0	2434.6	2442.6	2434.0	2433.6
10°	2444.4	2419.0	2427.1	2418.4	2416.3
12.5°	2421.9	2396.5	2406.3	2395.9	2395.5
15°	2381.6	2358.4	2368.7	2359.9	2355.7
17.5°	2336.2	2310.8	2323.2	2311.1	2309.4
20°	2301.6	2276.2	2288.6	2271.3	2271.3
22.5°	2260.1	2234.7	2248.8	2226.3	2226.3
25°	2193.5	2168.1	2178.3	2158.8	2156.7
27.5°	2114.3	2089.3	2100.0	2077.9	2077.5
30°	2057.2	2033.9	2046.4	2022.5	2020.4
32.5°	1994.9	1973.3	1982.3	1958.5	1956.4
35°	1894.9	1875.9	1882.0	1860.3	1858.2
37.5°	1789.8	1770.3	1777.3	1758.6	1757.8
40°	1715.4	1702.7	1704.6	1689.3	1685.1
42.5°	1646.2	1631.8	1633.6	1618.5	1617.6
45°	1540.2	1529.6	1529.4	1514.2	1514.2
47.5°	1427.7	1419.7	1417.3	1404.8	1404.3
50°	1349.8	1343.5	1341.2	1330.3	1328.2
52.5°	1268.5	1265.5	1258.1	1249.0	1248.6
55°	1142.2	1137.9	1127.0	1120.5	1118.4
57.5°	1005.0	996.5	984.2	974.8	976.5
60°	906.4	897.9	880.4	876.1	876.1
62.5°	811.2	801.0	783.5	777.5	780.9
65°	674.9	662.2	646.8	642.5	644.6
67.5°	551.2	539.8	523.1	523.0	521.3
70°	471.6	465.2	452.1	452.1	452.1
72.5°	400.6	397.7	388.1	388.0	386.3
75°	307.2	307.2	302.8	300.6	298.5
77.5°	230.2	231.0	228.9	226.6	222.8
80°	181.7	185.9	183.9	181.7	179.5
82.5°	136.7	140.9	140.6	136.7	136.3
85°	71.4	77.7	77.9	77.9	77.9
87.5°	19.3	26.5	29.7	28.7	30.4
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

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