

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: P563943

Luminaire Tested: **SQ4-PR1-025U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563943
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

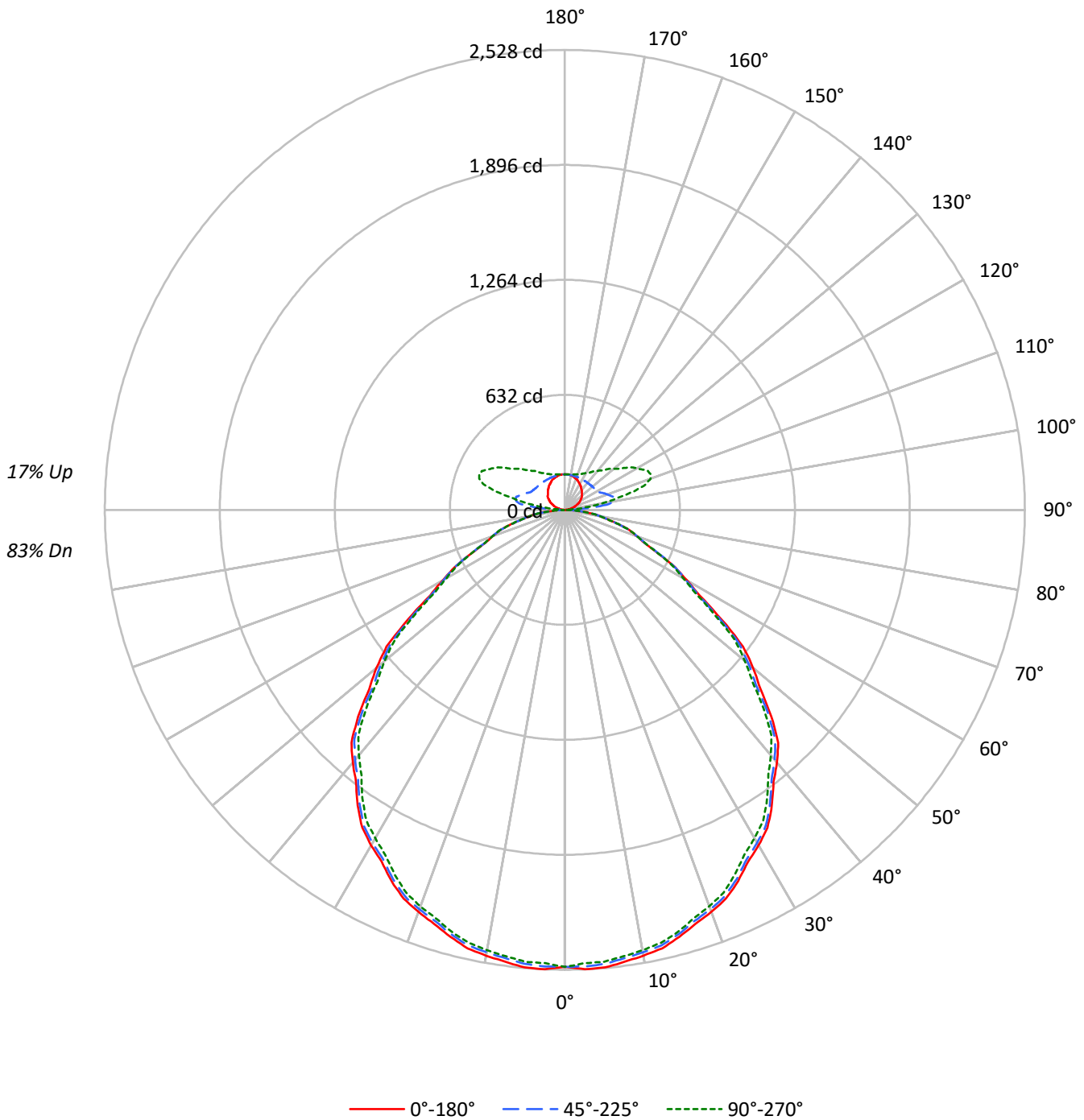
Lumens per Lamp: N/A
Luminaire Lumens: 7546.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	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	40	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	41	36	33	31
8	60	47	39	33	57	46	38	33	43	36	32	40	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°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15432	15351
15°	15472	15376	15293
20°	15394	15296	15182
25°	15286	15183	15007
30°	15122	15014	14798
35°	14898	14768	14557
40°	14559	14402	14141
45°	13965	13720	13438
50°	12919	12609	12360
55°	11276	11021	10789
60°	9502	9422	9236
65°	8219	8251	8188
70°	7550	7587	7587
75°	7251	7251	7301
80°	6822	6896	6822
85°	5498	6105	6105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	3.1
10°-20°	679.7	9.0
20°-30°	1025.1	13.6
30°-40°	1221.4	16.2
40°-50°	1204.2	16.0
50°-60°	920.3	12.2
60°-70°	569.5	7.5
70°-80°	323.5	4.3
80°-90°	99.4	1.3
90°-100°	95.1	1.3
100°-110°	250.1	3.3
110°-120°	259.3	3.4
120°-130°	208.0	2.8
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°	1942.3	25.7
0°-40°	3163.8	41.9
0°-60°	5288.4	70.1
0°-90°	6280.9	83.2
90°-120°	604.6	8.0
90°-150°	1101.1	14.6
90°-180°	1265.0	16.8
0°-180°	7546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2525	2498	2506	2497	2493	240
15°	2430	2404	2415	2406	2402	686
25°	2252	2225	2237	2213	2211	1037
35°	1984	1961	1967	1941	1939	1238
45°	1605	1584	1577	1549	1545	1230
55°	1052	1035	1028	1010	1006	942
65°	565	560	567	563	563	572
75°	305	305	305	307	307	322
85°	78	82	86	86	86	91
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°	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2527.6	2505.6	2512.0	2506.6	2494.7
5°	2525.0	2497.5	2505.5	2496.8	2492.6
7.5°	2505.5	2478.5	2486.5	2477.8	2475.2
10°	2488.2	2462.8	2470.9	2462.2	2457.9
12.5°	2469.2	2442.1	2451.9	2441.4	2437.2
15°	2429.8	2404.4	2414.7	2405.9	2401.7
17.5°	2386.5	2359.5	2369.7	2359.6	2354.1
20°	2351.9	2326.5	2336.8	2321.6	2319.5
22.5°	2313.8	2288.4	2298.7	2278.3	2277.9
25°	2252.4	2224.9	2237.2	2213.4	2211.3
27.5°	2179.3	2153.9	2164.1	2139.8	2137.3
30°	2129.1	2103.7	2113.9	2087.9	2083.6
32.5°	2071.9	2048.2	2056.8	2030.8	2028.2
35°	1984.1	1960.8	1966.8	1940.8	1938.7
37.5°	1884.1	1863.0	1866.4	1837.8	1835.7
40°	1813.2	1792.0	1793.7	1763.3	1761.2
42.5°	1735.3	1714.1	1712.3	1682.0	1679.9
45°	1605.4	1584.3	1577.3	1549.1	1544.9
47.5°	1457.5	1436.3	1423.3	1400.3	1397.3
50°	1350.1	1329.0	1317.7	1298.1	1291.7
52.5°	1234.2	1213.0	1203.4	1185.6	1179.2
55°	1051.5	1034.6	1027.7	1010.3	1006.1
57.5°	878.0	866.6	864.6	847.7	846.0
60°	772.4	766.1	765.9	750.8	750.8
62.5°	682.4	677.8	681.1	671.1	669.4
65°	564.7	560.5	566.9	562.6	562.6
67.5°	471.7	471.7	475.6	473.8	473.8
70°	419.8	419.8	421.9	421.9	421.9
72.5°	373.0	371.3	376.9	376.9	375.2
75°	305.1	305.1	305.1	307.2	307.2
77.5°	237.6	238.0	239.7	239.3	237.6
80°	192.6	194.7	194.7	192.6	192.6
82.5°	147.6	149.7	149.7	149.3	147.6
85°	77.9	82.1	86.5	86.5	86.5
87.5°	22.8	30.0	36.6	35.6	33.9
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

(END OF REPORT)