

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: P564419

Luminaire Tested: **SQ4-PR1-125U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564419
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

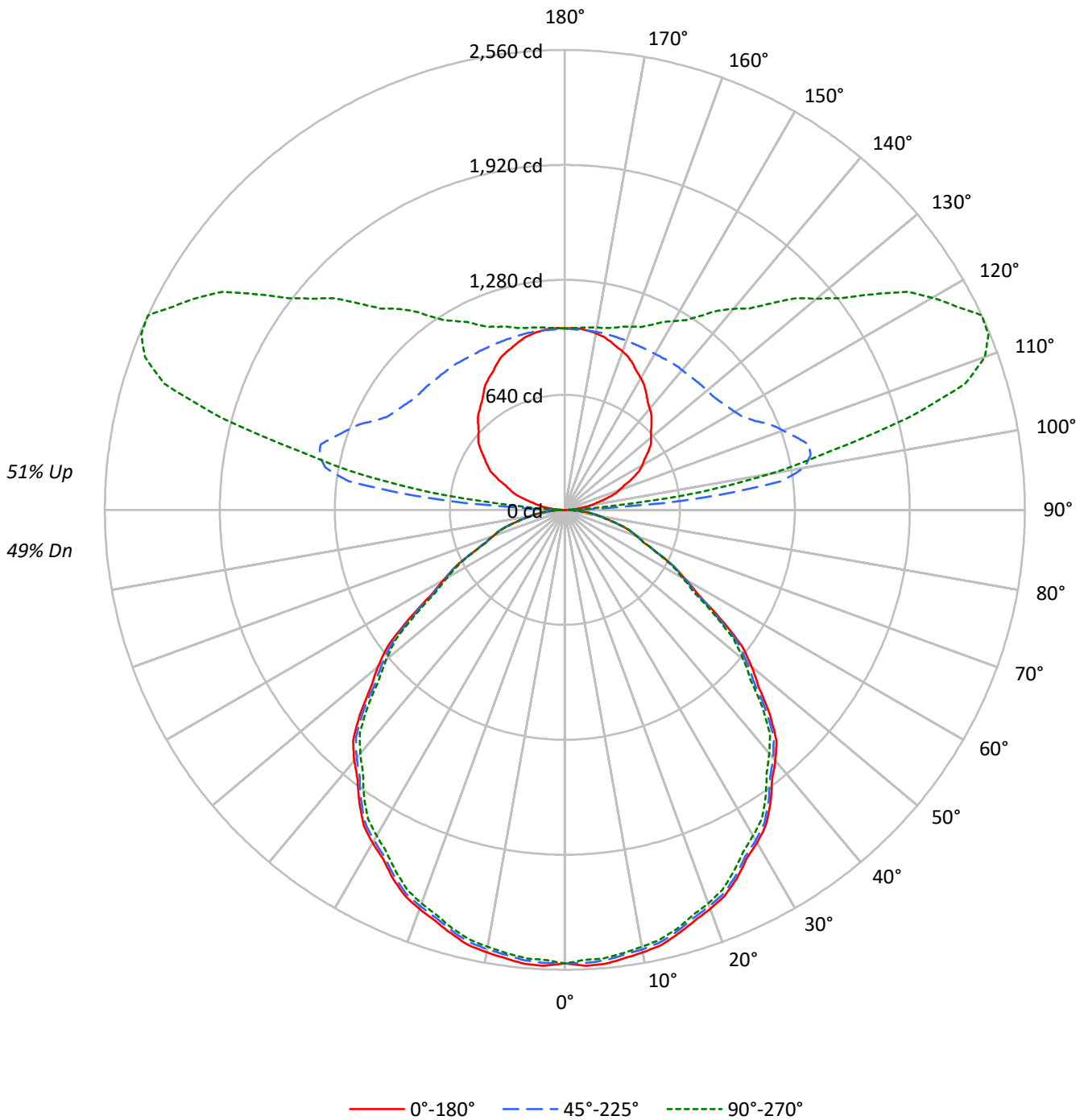
Lumens per Lamp: N/A
Luminaire Lumens: 12830.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14475	14213
45°	14036	13791	13506
50°	12985	12673	12423
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7627	7627
75°	7286	7286	7339
80°	6854	6932	6854
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	1.9
10°-20°	683.1	5.3
20°-30°	1030.4	8.0
30°-40°	1227.7	9.6
40°-50°	1210.4	9.4
50°-60°	925.0	7.2
60°-70°	572.5	4.5
70°-80°	325.1	2.5
80°-90°	101.3	0.8
90°-100°	472.2	3.7
100°-110°	1271.9	9.9
110°-120°	1334.8	10.4
120°-130°	1083.2	8.4
130°-140°	849.5	6.6
140°-150°	652.2	5.1
150°-160°	468.9	3.7
160°-170°	286.5	2.2
170°-180°	96.6	0.8
0°-30°	1952.3	15.2
0°-40°	3179.9	24.8
0°-60°	5315.4	41.4
0°-90°	6314.2	49.2
90°-120°	3078.9	24.0
90°-150°	5663.8	44.1
90°-180°	6516.0	50.8
0°-180°	12830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2538	2510	2518	2510	2505	241
15°	2442	2417	2427	2418	2414	689
25°	2264	2236	2249	2225	2223	1042
35°	1994	1971	1977	1951	1948	1245
45°	1614	1592	1585	1557	1553	1236
55°	1057	1040	1033	1016	1011	947
65°	568	563	570	565	565	575
75°	307	307	307	309	309	324
85°	78	82	87	87	87	91
90°	3	8	15	17	17	8
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2540.5	2518.4	2524.8	2519.4	2507.5
5°	2537.9	2510.3	2518.3	2509.5	2505.3
7.5°	2518.3	2491.1	2499.2	2490.4	2487.9
10°	2500.9	2475.4	2483.5	2474.7	2470.5
12.5°	2481.8	2454.6	2464.4	2453.9	2449.6
15°	2442.2	2416.7	2427.0	2418.2	2413.9
17.5°	2398.7	2371.5	2381.8	2371.6	2366.1
20°	2363.9	2338.4	2348.7	2333.4	2331.3
22.5°	2325.6	2300.1	2310.4	2290.0	2289.5
25°	2263.9	2236.2	2248.7	2224.7	2222.6
27.5°	2190.4	2164.9	2175.2	2150.7	2148.2
30°	2139.9	2114.4	2124.7	2098.5	2094.3
32.5°	2082.5	2058.7	2067.3	2041.1	2038.6
35°	1994.2	1970.8	1976.8	1950.7	1948.5
37.5°	1893.7	1872.5	1875.9	1847.2	1845.0
40°	1822.4	1801.2	1802.8	1772.3	1770.2
42.5°	1744.1	1722.9	1721.1	1690.6	1688.5
45°	1613.6	1592.4	1585.4	1557.0	1552.7
47.5°	1464.9	1443.6	1430.5	1407.4	1404.4
50°	1357.0	1335.8	1324.4	1304.7	1298.3
52.5°	1240.5	1219.2	1209.6	1191.6	1185.2
55°	1056.9	1039.9	1033.0	1015.5	1011.2
57.5°	882.5	871.0	869.0	852.0	850.3
60°	776.4	770.0	769.9	754.6	754.6
62.5°	685.9	681.2	684.6	674.6	672.9
65°	567.6	563.3	569.8	565.4	565.4
67.5°	474.1	474.1	478.0	476.3	476.3
70°	421.9	421.9	424.1	424.1	424.1
72.5°	374.9	373.2	378.8	378.8	377.1
75°	306.6	306.6	306.6	308.8	308.8
77.5°	238.8	239.2	241.0	240.5	238.8
80°	193.5	195.7	195.7	193.5	193.5
82.5°	148.3	150.4	150.5	150.0	148.3
85°	78.3	82.5	87.0	87.0	87.0
87.5°	23.1	30.9	37.9	38.1	36.4
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)