

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: P562096

Luminaire Tested: **SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562096
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-150U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9227.9 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

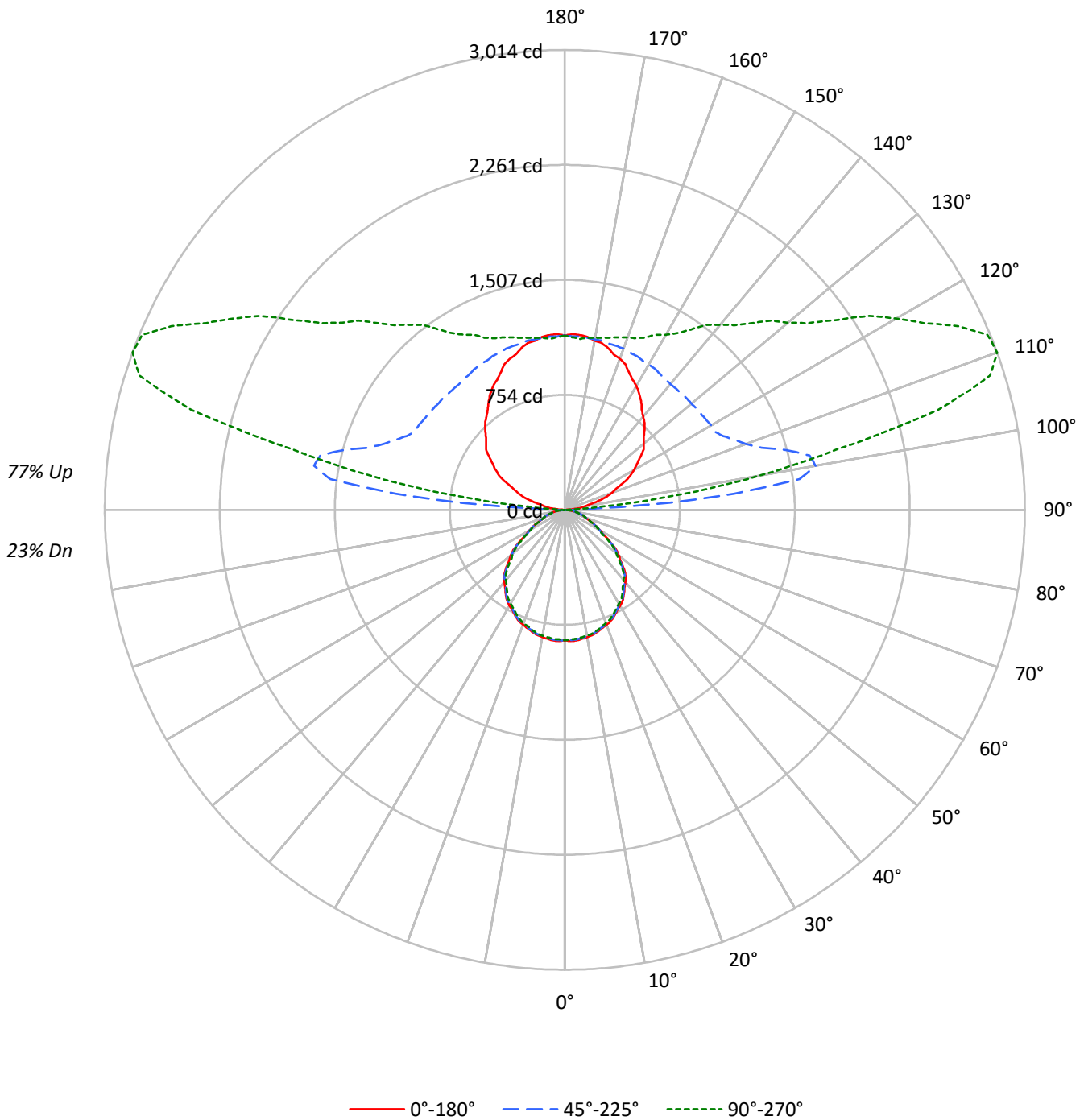
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23				
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20				
2	84	77	71	66	74	68	64	60	53	49	47	38	36	34	25	24	23	17				
3	76	68	61	55	68	60	54	50	47	43	39	34	31	29	22	21	19	14				
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	20	18	17	12				
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9				
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10	8				
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9	7				
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7893	7893	7893
5°	7964	7903	7862
10°	7939	7884	7842
15°	7904	7854	7812
20°	7864	7813	7755
25°	7809	7756	7667
30°	7725	7669	7560
35°	7610	7544	7436
40°	7437	7358	7224
45°	7135	7009	6864
50°	6600	6440	6314
55°	5760	5630	5511
60°	4855	4812	4718
65°	4198	4216	4183
70°	3858	3876	3876
75°	3704	3704	3729
80°	3485	3523	3485
85°	2805	3123	3123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	0.9
10°-20°	231.5	2.5
20°-30°	349.1	3.8
30°-40°	416.0	4.5
40°-50°	410.1	4.4
50°-60°	313.4	3.4
60°-70°	194.0	2.1
70°-80°	110.2	1.2
80°-90°	33.5	0.4
90°-100°	520.1	5.6
100°-110°	1479.7	16.0
110°-120°	1417.7	15.4
120°-130°	1122.1	12.2
130°-140°	900.6	9.8
140°-150°	705.1	7.6
150°-160°	515.9	5.6
160°-170°	319.6	3.5
170°-180°	108.4	1.2
0°-30°	661.5	7.2
0°-40°	1077.5	11.7
0°-60°	1801.0	19.5
0°-90°	2138.7	23.2
90°-120°	3417.5	37.0
90°-150°	6145.3	66.6
90°-180°	7089.0	76.8
0°-180°	9227.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	860	850	853	850	849	82
15°	828	819	822	819	818	234
25°	767	758	762	754	753	353
35°	676	668	670	661	660	422
45°	547	540	537	528	526	419
55°	358	352	350	344	343	321
65°	192	191	193	192	192	195
75°	104	104	104	105	105	110
85°	26	28	30	30	30	31
90°	0	0	0	0	0	3
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.5	855.5	855.5	855.5	855.5
2.5°	860.8	853.3	855.5	853.6	849.6
5°	859.9	850.5	853.3	850.3	848.9
7.5°	853.3	844.1	846.8	843.8	843.0
10°	847.4	838.7	841.5	838.5	837.1
12.5°	840.9	831.7	835.0	831.4	830.0
15°	827.5	818.8	822.3	819.4	817.9
17.5°	812.8	803.5	807.0	803.6	801.7
20°	801.0	792.3	795.8	790.6	789.9
22.5°	788.0	779.4	782.8	775.9	775.8
25°	767.1	757.7	761.9	753.8	753.1
27.5°	742.2	733.5	737.0	728.7	727.9
30°	725.1	716.4	719.9	711.0	709.6
32.5°	705.6	697.5	700.5	691.6	690.7
35°	675.7	667.8	669.8	660.9	660.2
37.5°	641.7	634.5	635.6	625.9	625.2
40°	617.5	610.3	610.9	600.5	599.8
42.5°	591.0	583.8	583.2	572.8	572.1
45°	546.8	539.5	537.2	527.6	526.1
47.5°	496.3	489.1	484.7	476.9	475.9
50°	459.8	452.6	448.7	442.1	439.9
52.5°	420.3	413.1	409.8	403.8	401.6
55°	358.1	352.4	350.0	344.1	342.6
57.5°	299.0	295.1	294.4	288.7	288.1
60°	263.1	260.9	260.8	255.7	255.7
62.5°	232.4	230.8	232.0	228.6	228.0
65°	192.3	190.9	193.1	191.6	191.6
67.5°	160.6	160.6	162.0	161.4	161.4
70°	143.0	143.0	143.7	143.7	143.7
72.5°	127.0	126.5	128.4	128.3	127.8
75°	103.9	103.9	103.9	104.6	104.6
77.5°	80.9	81.1	81.6	81.5	80.9
80°	65.6	66.3	66.3	65.6	65.6
82.5°	50.3	51.0	51.0	50.8	50.3
85°	26.5	28.0	29.5	29.5	29.5
87.5°	7.7	10.0	11.8	11.8	11.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	2998.1
115°	427.4	516.5	1143.4	2422.3	2844.5
117.5°	481.7	565.3	1110.0	2202.9	2650.1
120°	525.1	595.1	1106.6	2077.5	2506.0
122.5°	559.8	629.8	1097.9	1967.4	2365.4
125°	603.2	669.0	1091.4	1811.1	2165.4
127.5°	650.5	712.0	1087.9	1717.7	2009.6
130°	674.8	736.3	1082.7	1652.6	1907.2
132.5°	700.8	760.6	1082.7	1601.8	1836.0
135°	737.7	799.2	1078.4	1529.8	1729.3
137.5°	772.4	832.2	1077.9	1468.9	1641.2
140°	798.5	860.0	1076.2	1418.4	1583.9
142.5°	828.0	879.3	1081.4	1378.1	1526.6
145°	870.1	914.6	1087.0	1324.1	1442.9
147.5°	906.1	949.4	1096.6	1269.5	1372.1
150°	937.3	967.0	1100.1	1251.4	1323.5
152.5°	961.6	993.0	1103.5	1227.0	1294.0
155°	993.7	1017.1	1113.1	1196.6	1245.4
157.5°	1033.7	1047.7	1115.2	1182.9	1217.7
160°	1054.5	1065.1	1123.9	1172.3	1202.0
162.5°	1066.6	1078.9	1125.7	1163.5	1186.4
165°	1097.9	1102.1	1126.1	1150.3	1167.3
167.5°	1119.1	1115.3	1136.1	1147.1	1153.9
170°	1126.1	1124.0	1132.6	1135.0	1143.4
172.5°	1141.7	1134.5	1137.8	1131.4	1138.2
175°	1150.0	1143.6	1139.1	1132.4	1123.9
177.5°	1153.4	1143.2	1137.8	1130.9	1132.6
180°	1141.3	1141.3	1141.3	1141.3	1141.3

(END OF REPORT)