

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: P562094

Luminaire Tested: **SQ4-PR1-150U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562094
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

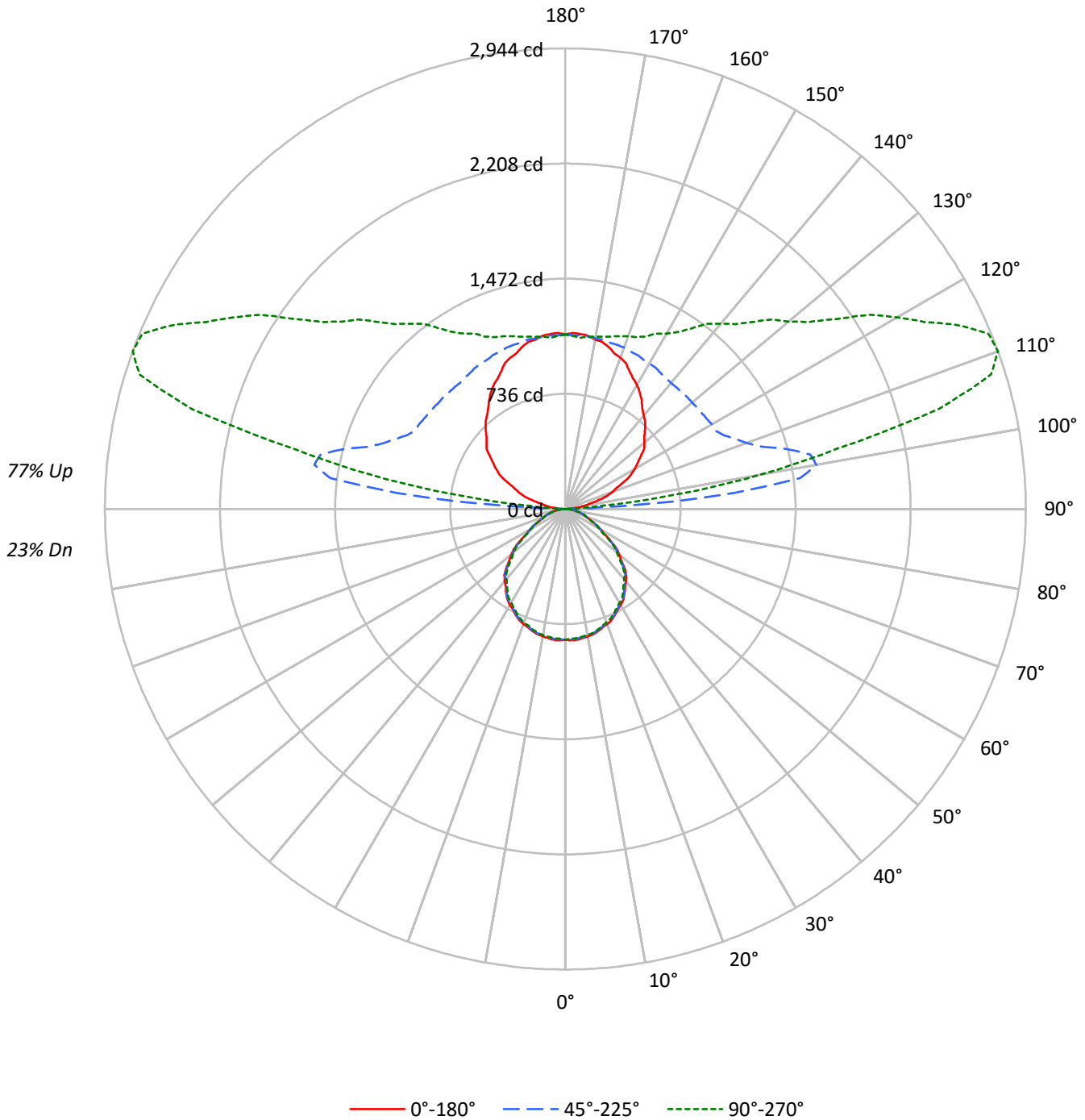
Lumens per Lamp: N/A
Luminaire Lumens: 9012.9 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	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°	7709	7709	7709
5°	7779	7718	7679
10°	7753	7700	7660
15°	7720	7672	7631
20°	7681	7632	7575
25°	7627	7576	7487
30°	7545	7490	7384
35°	7434	7368	7262
40°	7264	7185	7055
45°	6968	6846	6705
50°	6446	6291	6168
55°	5627	5500	5384
60°	4740	4702	4608
65°	4100	4117	4085
70°	3766	3785	3785
75°	3618	3618	3643
80°	3406	3443	3406
85°	2742	3049	3049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	0.9
10°-20°	226.1	2.5
20°-30°	341.0	3.8
30°-40°	406.3	4.5
40°-50°	400.6	4.4
50°-60°	306.1	3.4
60°-70°	189.4	2.1
70°-80°	107.6	1.2
80°-90°	32.7	0.4
90°-100°	507.9	5.6
100°-110°	1445.2	16.0
110°-120°	1384.7	15.4
120°-130°	1095.9	12.2
130°-140°	879.7	9.8
140°-150°	688.7	7.6
150°-160°	503.9	5.6
160°-170°	312.1	3.5
170°-180°	105.9	1.2
0°-30°	646.1	7.2
0°-40°	1052.3	11.7
0°-60°	1759.0	19.5
0°-90°	2088.8	23.2
90°-120°	3337.9	37.0
90°-150°	6002.1	66.6
90°-180°	6924.0	76.8
0°-180°	9012.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	840	831	833	830	829	80
15°	808	800	803	800	799	228
25°	749	740	744	736	736	345
35°	660	652	654	646	645	412
45°	534	527	525	515	514	409
55°	350	344	342	336	335	313
65°	188	186	189	187	187	190
75°	102	102	102	102	102	107
85°	26	27	29	29	29	30
90°	0	0	0	0	0	3
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.6	835.6	835.6	835.6	835.6
2.5°	840.7	833.4	835.6	833.7	829.8
5°	839.9	830.7	833.4	830.5	829.1
7.5°	833.4	824.4	827.1	824.2	823.3
10°	827.6	819.2	821.9	819.0	817.6
12.5°	821.3	812.3	815.6	812.1	810.7
15°	808.2	799.8	803.2	800.3	798.9
17.5°	793.8	784.8	788.2	784.8	783.0
20°	782.3	773.9	777.3	772.2	771.5
22.5°	769.6	761.2	764.6	757.8	757.7
25°	749.2	740.0	744.2	736.2	735.5
27.5°	724.9	716.4	719.8	711.8	710.9
30°	708.2	699.7	703.1	694.5	693.1
32.5°	689.2	681.3	684.1	675.5	674.6
35°	660.0	652.2	654.2	645.5	644.8
37.5°	626.7	619.7	620.8	611.3	610.6
40°	603.1	596.1	596.6	586.5	585.8
42.5°	577.2	570.2	569.6	559.5	558.8
45°	534.0	527.0	524.7	515.3	513.9
47.5°	484.8	477.7	473.4	465.8	464.8
50°	449.1	442.0	438.3	431.8	429.7
52.5°	410.5	403.5	400.3	394.3	392.2
55°	349.8	344.1	341.9	336.1	334.7
57.5°	292.0	288.2	287.6	282.0	281.4
60°	256.9	254.8	254.8	249.7	249.7
62.5°	227.0	225.4	226.6	223.2	222.7
65°	187.8	186.4	188.6	187.1	187.1
67.5°	156.9	156.9	158.2	157.6	157.6
70°	139.6	139.6	140.3	140.3	140.3
72.5°	124.1	123.5	125.4	125.4	124.8
75°	101.5	101.5	101.5	102.2	102.2
77.5°	79.0	79.2	79.7	79.6	79.0
80°	64.1	64.8	64.8	64.1	64.1
82.5°	49.1	49.8	49.8	49.6	49.1
85°	25.9	27.3	28.8	28.8	28.8
87.5°	7.5	9.7	11.5	11.5	10.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)