

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: P564439

Luminaire Tested: **SQ4-PR1-150U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564439
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

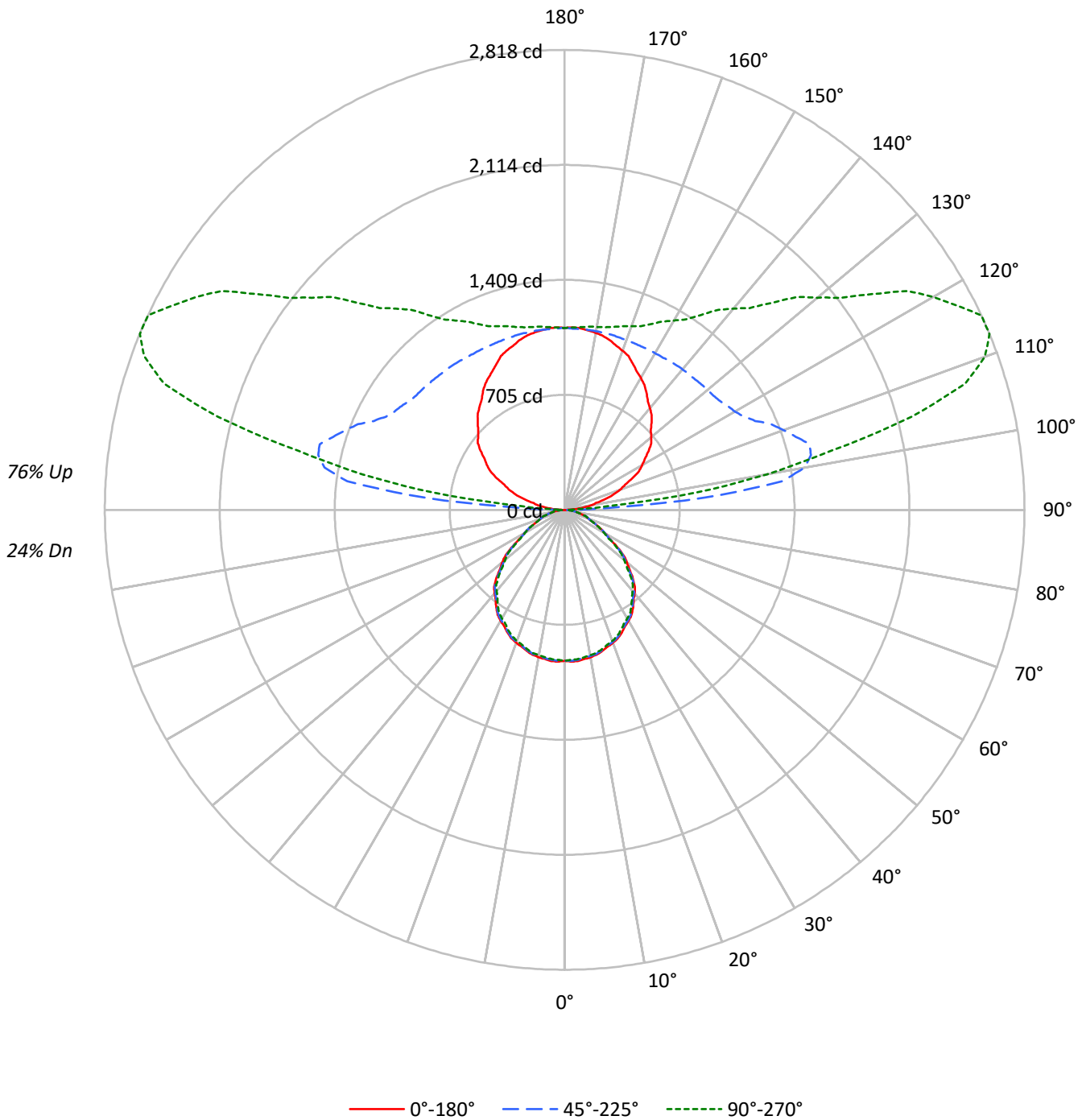
Lumens per Lamp: N/A
Luminaire Lumens: 9505.7 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5654
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5592	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5143	5054	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3401
65°	3027	3039	3016
70°	2780	2795	2795
75°	2671	2671	2690
80°	2511	2540	2511
85°	2025	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	0.9
10°-20°	250.3	2.6
20°-30°	377.6	4.0
30°-40°	449.9	4.7
40°-50°	443.6	4.7
50°-60°	339.0	3.6
60°-70°	209.8	2.2
70°-80°	119.2	1.3
80°-90°	38.6	0.4
90°-100°	518.3	5.5
100°-110°	1401.4	14.7
110°-120°	1473.3	15.5
120°-130°	1196.7	12.6
130°-140°	938.7	9.9
140°-150°	720.5	7.6
150°-160°	518.2	5.5
160°-170°	316.5	3.3
170°-180°	106.7	1.1
0°-30°	715.4	7.5
0°-40°	1165.3	12.3
0°-60°	1947.9	20.5
0°-90°	2315.3	24.4
90°-120°	3393.0	35.7
90°-150°	6249.0	65.7
90°-180°	7190.0	75.6
0°-180°	9505.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	930	920	923	920	918	88
15°	895	886	889	886	885	253
25°	830	820	824	815	814	382
35°	731	722	724	715	714	456
45°	591	584	581	571	569	453
55°	387	381	378	372	371	347
65°	208	206	209	207	207	211
75°	112	112	112	113	113	119
85°	29	30	32	32	32	33
90°	2	7	16	17	16	7
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.3	925.3	925.3	925.3	925.3
2.5°	931.0	922.9	925.3	923.2	918.9
5°	930.0	919.9	922.9	919.6	918.1
7.5°	922.9	912.9	915.9	912.6	911.7
10°	916.5	907.1	910.1	906.9	905.3
12.5°	909.5	899.5	903.1	899.2	897.7
15°	895.0	885.6	889.4	886.2	884.6
17.5°	879.0	869.1	872.8	869.1	867.1
20°	866.3	856.9	860.7	855.1	854.3
22.5°	852.3	842.9	846.7	839.2	839.0
25°	829.6	819.5	824.0	815.3	814.5
27.5°	802.7	793.3	797.1	788.2	787.2
30°	784.2	774.8	778.6	769.0	767.5
32.5°	763.2	754.4	757.6	748.0	747.1
35°	730.8	722.2	724.4	714.8	714.1
37.5°	694.0	686.2	687.4	676.9	676.1
40°	667.8	660.0	660.7	649.5	648.7
42.5°	639.2	631.4	630.7	619.5	618.7
45°	591.3	583.5	581.0	570.6	569.0
47.5°	536.8	529.0	524.2	515.8	514.7
50°	497.3	489.5	485.3	478.1	475.8
52.5°	454.6	446.8	443.3	436.7	434.3
55°	387.3	381.1	378.5	372.1	370.6
57.5°	323.4	319.2	318.5	312.2	311.6
60°	284.5	282.2	282.1	276.5	276.5
62.5°	251.4	249.6	250.9	247.2	246.6
65°	208.0	206.4	208.8	207.2	207.2
67.5°	173.7	173.7	175.2	174.5	174.5
70°	154.6	154.6	155.4	155.4	155.4
72.5°	137.4	136.8	138.8	138.8	138.2
75°	112.4	112.4	112.4	113.2	113.2
77.5°	87.5	87.7	88.3	88.1	87.5
80°	70.9	71.7	71.7	70.9	70.9
82.5°	54.4	55.1	55.1	55.0	54.4
85°	28.7	30.2	31.9	31.9	31.9
87.5°	8.8	12.2	15.9	16.1	15.2
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)