

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: P564043

Luminaire Tested: **SQ4-PR1-075U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564043
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

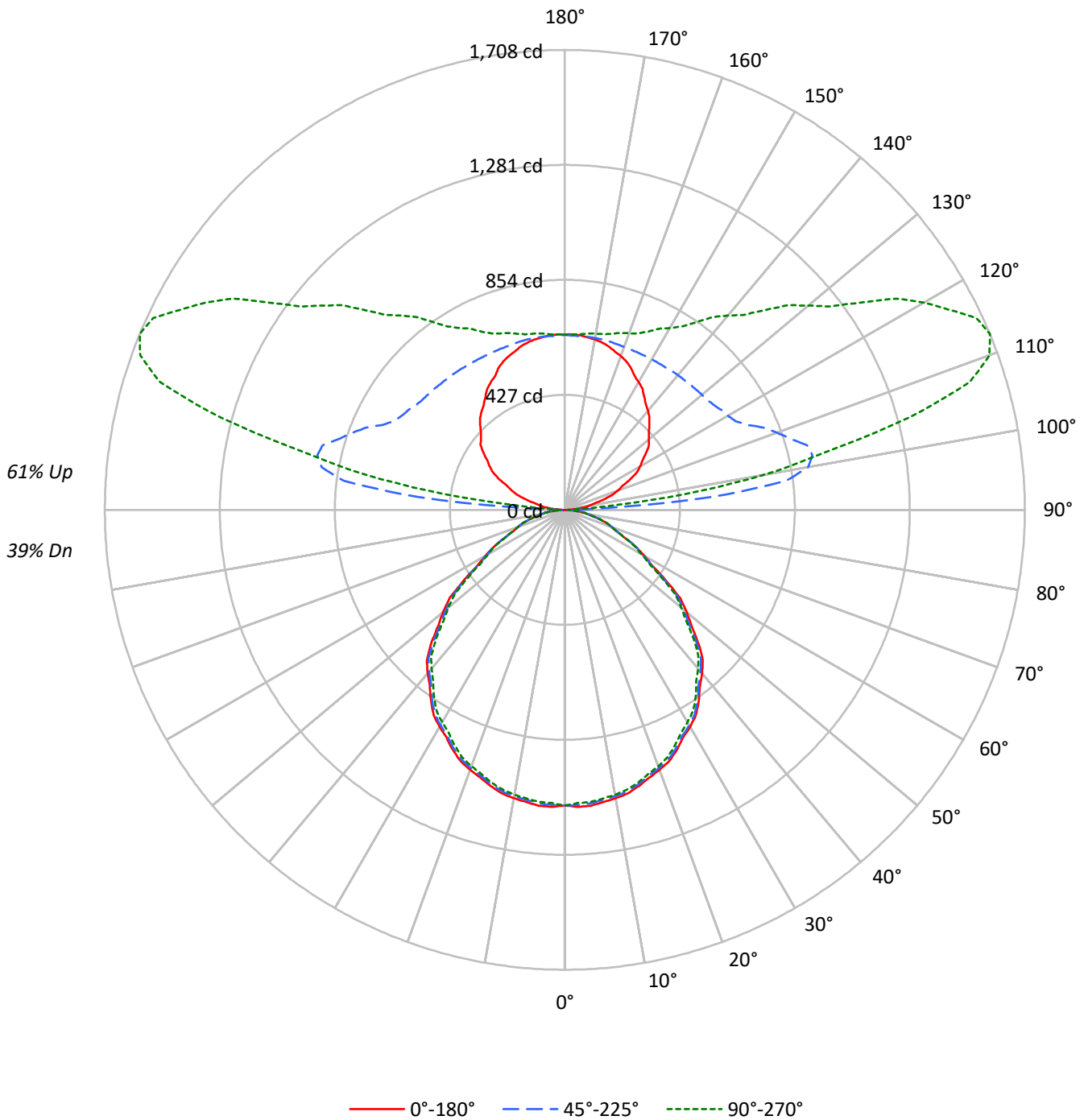
Lumens per Lamp: N/A
Luminaire Lumens: 6984.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	0
RCR																		
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6751	6751	6751
5°	6811	6759	6724
10°	6790	6742	6707
15°	6760	6718	6682
20°	6726	6682	6633
25°	6679	6633	6557
30°	6607	6560	6465
35°	6509	6452	6360
40°	6361	6293	6179
45°	6101	5994	5871
50°	5645	5509	5400
55°	4926	4815	4714
60°	4152	4116	4035
65°	3590	3605	3577
70°	3298	3314	3314
75°	3168	3168	3189
80°	2979	3014	2979
85°	2399	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.5
10°-20°	296.9	4.3
20°-30°	447.9	6.4
30°-40°	533.6	7.6
40°-50°	526.1	7.5
50°-60°	402.1	5.8
60°-70°	248.8	3.6
70°-80°	141.3	2.0
80°-90°	44.7	0.6
90°-100°	306.9	4.4
100°-110°	844.3	12.1
110°-120°	871.5	12.5
120°-130°	698.2	10.0
130°-140°	548.4	7.9
140°-150°	420.3	6.0
150°-160°	302.2	4.3
160°-170°	184.8	2.6
170°-180°	62.3	0.9
0°-30°	848.6	12.2
0°-40°	1382.2	19.8
0°-60°	2310.5	33.1
0°-90°	2745.3	39.3
90°-120°	2022.6	29.0
90°-150°	3689.5	52.8
90°-180°	4239.0	60.7
0°-180°	6984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1103	1091	1095	1091	1089	105
15°	1062	1050	1055	1051	1049	300
25°	984	972	977	967	966	453
35°	867	857	859	848	847	541
45°	701	692	689	677	675	537
55°	459	452	449	441	440	412
65°	247	245	248	246	246	250
75°	133	133	133	134	134	141
85°	34	36	38	38	38	40
90°	1	5	10	12	12	4
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1104.3	1094.7	1097.5	1095.1	1089.9
5°	1103.2	1091.2	1094.7	1090.8	1089.0
7.5°	1094.7	1082.8	1086.3	1082.5	1081.4
10°	1087.1	1076.0	1079.5	1075.7	1073.9
12.5°	1078.8	1067.0	1071.2	1066.6	1064.8
15°	1061.6	1050.5	1055.0	1051.1	1049.3
17.5°	1042.7	1030.8	1035.3	1030.9	1028.5
20°	1027.5	1016.5	1020.9	1014.3	1013.4
22.5°	1010.9	999.8	1004.3	995.4	995.2
25°	984.1	972.0	977.4	967.0	966.1
27.5°	952.1	941.0	945.5	934.9	933.8
30°	930.2	919.1	923.6	912.2	910.3
32.5°	905.2	894.9	898.6	887.2	886.1
35°	866.8	856.7	859.3	847.9	847.0
37.5°	823.2	813.9	815.4	802.9	802.0
40°	792.2	782.9	783.7	770.4	769.5
42.5°	758.1	748.9	748.1	734.9	733.9
45°	701.4	692.2	689.1	676.8	674.9
47.5°	636.8	627.5	621.8	611.8	610.5
50°	589.9	580.6	575.7	567.1	564.3
52.5°	539.2	530.0	525.8	518.0	515.2
55°	459.4	452.0	449.0	441.4	439.6
57.5°	383.6	378.6	377.7	370.4	369.6
60°	337.5	334.7	334.6	328.0	328.0
62.5°	298.1	296.1	297.6	293.2	292.5
65°	246.7	244.9	247.7	245.8	245.8
67.5°	206.1	206.1	207.8	207.0	207.0
70°	183.4	183.4	184.3	184.3	184.3
72.5°	163.0	162.2	164.7	164.7	163.9
75°	133.3	133.3	133.3	134.2	134.2
77.5°	103.8	104.0	104.7	104.5	103.8
80°	84.1	85.1	85.1	84.1	84.1
82.5°	64.5	65.4	65.4	65.2	64.5
85°	34.0	35.9	37.8	37.8	37.8
87.5°	10.1	13.9	17.1	17.6	16.9
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)