

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: P564751

Luminaire Tested: **SQ4-PW1-075U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564751
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

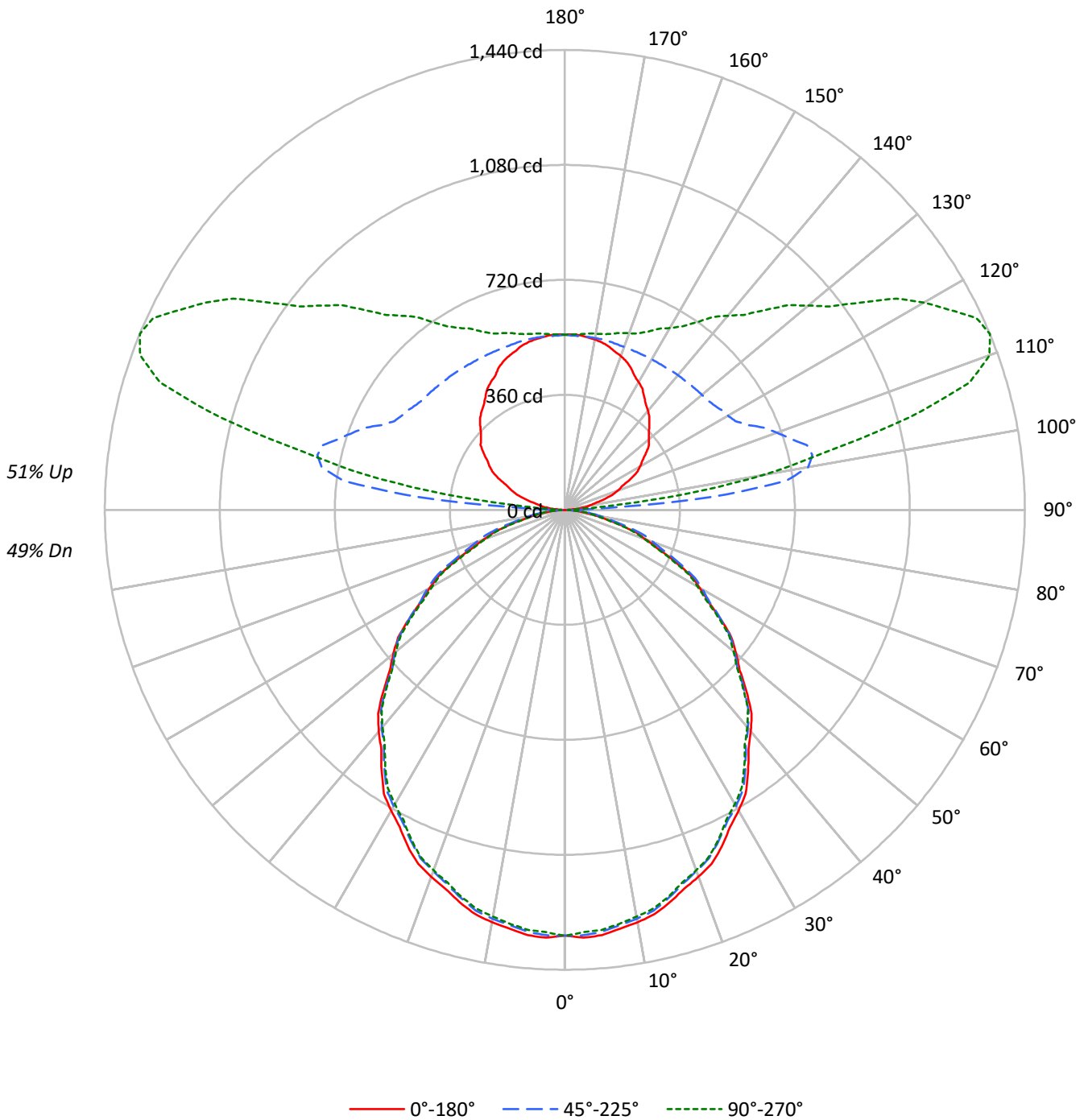
Lumens per Lamp: N/A
Luminaire Lumens: 6966.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7158	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6113	5895
65°	5487	5760	5352
70°	4838	5302	4710
75°	4130	4746	4019
80°	3202	3995	3245
85°	2075	3070	2738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.8
10°-20°	354.4	5.1
20°-30°	525.7	7.5
30°-40°	615.2	8.8
40°-50°	612.4	8.8
50°-60°	528.8	7.6
60°-70°	380.7	5.5
70°-80°	199.6	2.9
80°-90°	50.9	0.7
90°-100°	258.7	3.7
100°-110°	711.8	10.2
110°-120°	734.7	10.5
120°-130°	588.6	8.4
130°-140°	462.3	6.6
140°-150°	354.3	5.1
150°-160°	254.7	3.7
160°-170°	155.8	2.2
170°-180°	52.5	0.8
0°-30°	1005.7	14.4
0°-40°	1620.9	23.3
0°-60°	2762.2	39.6
0°-90°	3393.4	48.7
90°-120°	1705.2	24.5
90°-150°	3110.5	44.6
90°-180°	3573.0	51.3
0°-180°	6966.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1337	1322	1326	1323	1320	127
15°	1272	1256	1258	1256	1253	359
25°	1163	1143	1142	1135	1138	535
35°	1000	986	986	976	980	625
45°	803	796	793	790	789	620
55°	596	594	596	587	586	531
65°	377	388	396	380	368	374
75°	174	190	200	186	169	186
85°	29	39	44	41	39	39
90°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.2	1333.2	1333.2	1333.2	1333.2
2.5°	1340.7	1329.7	1333.2	1330.2	1323.8
5°	1336.7	1321.8	1326.1	1322.6	1320.3
7.5°	1323.1	1309.3	1312.5	1308.7	1307.3
10°	1310.9	1297.1	1300.3	1295.5	1293.2
12.5°	1296.8	1282.1	1285.3	1280.5	1279.1
15°	1272.1	1256.0	1258.0	1255.6	1253.3
17.5°	1243.4	1227.1	1227.5	1223.7	1223.2
20°	1222.8	1205.5	1204.0	1199.3	1201.6
22.5°	1200.2	1182.1	1180.5	1174.0	1177.2
25°	1162.9	1143.3	1141.7	1134.8	1138.2
27.5°	1119.6	1100.3	1100.4	1090.6	1094.3
30°	1087.7	1069.3	1071.2	1059.6	1064.2
32.5°	1053.9	1037.3	1038.4	1026.7	1031.3
35°	999.6	985.8	985.5	976.2	979.6
37.5°	944.2	932.0	930.1	924.7	925.6
40°	905.6	895.3	891.5	888.0	888.0
42.5°	865.2	855.8	852.1	849.5	848.5
45°	803.4	796.5	792.9	790.5	789.3
47.5°	742.4	735.9	732.7	731.1	729.9
50°	700.1	695.5	694.2	690.6	689.5
52.5°	657.8	655.0	653.8	649.3	648.1
55°	595.5	594.4	595.5	587.3	586.1
57.5°	530.7	532.5	536.3	525.2	522.5
60°	487.5	492.1	496.9	483.8	479.2
62.5°	443.3	450.6	457.4	442.4	436.0
65°	377.0	388.5	395.8	380.3	367.7
67.5°	313.2	327.4	336.2	319.4	305.2
70°	269.0	285.1	294.8	278.0	261.9
72.5°	230.5	248.4	256.3	240.4	224.4
75°	173.8	189.9	199.7	186.4	169.1
77.5°	123.3	138.5	146.6	135.0	120.7
80°	90.4	106.5	112.8	103.1	91.6
82.5°	64.1	77.5	81.8	75.9	68.1
85°	29.4	38.6	43.5	41.1	38.8
87.5°	7.8	14.9	19.5	20.0	20.9
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)