

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: P564712

Luminaire Tested: **SQ4-PW1-050U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564712
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

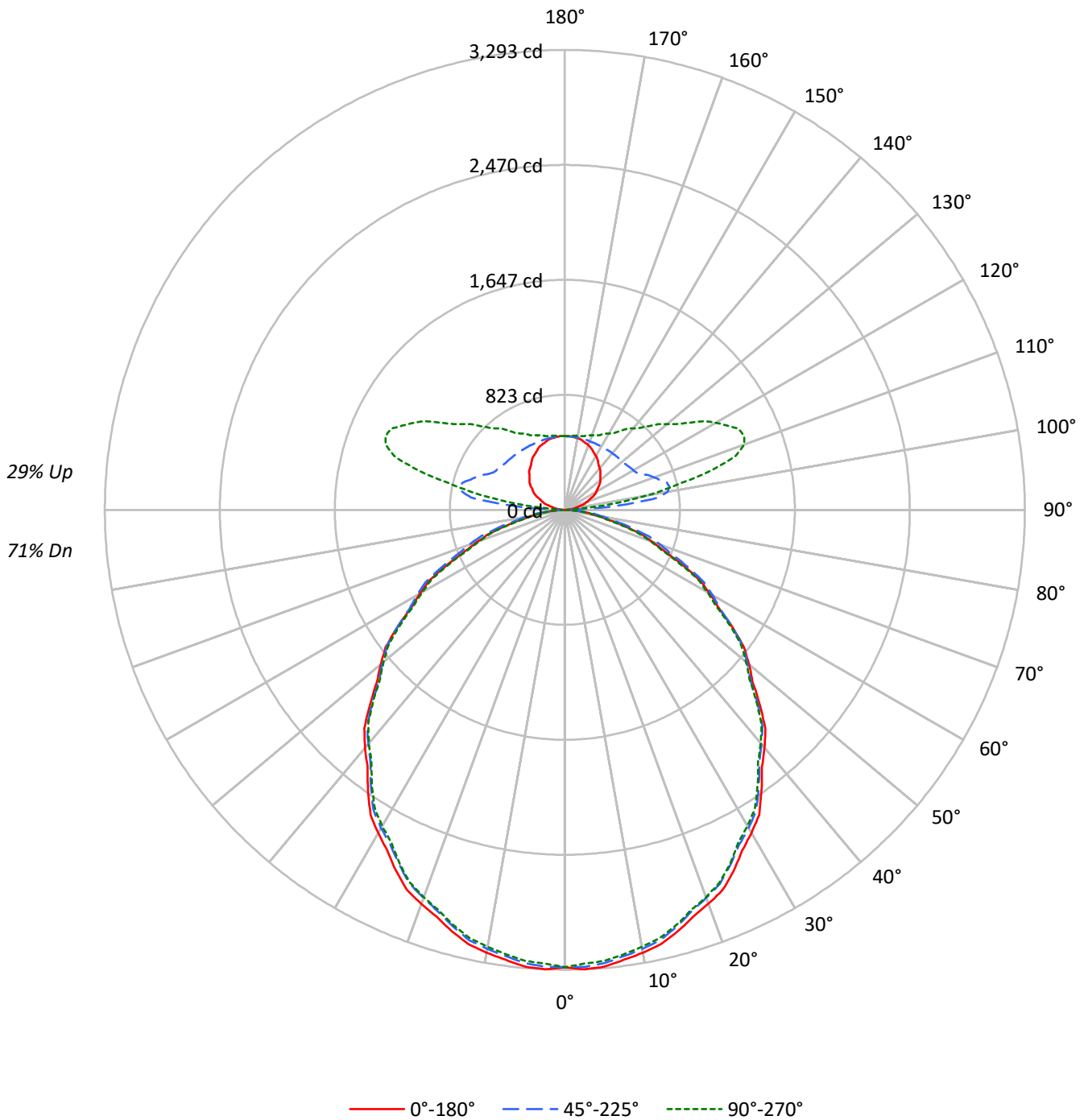
Lumens per Lamp: N/A
Luminaire Lumens: 11776.8 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14879
15°	14922	14756	14701
20°	14743	14516	14488
25°	14538	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13395	13186	13134
45°	12874	12704	12648
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11259	10859
65°	10109	10612	9857
70°	8910	9767	8677
75°	7611	8741	7404
80°	5900	7359	5977
85°	3816	5648	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	2.6
10°-20°	870.5	7.4
20°-30°	1291.3	11.0
30°-40°	1510.9	12.8
40°-50°	1504.2	12.8
50°-60°	1298.9	11.0
60°-70°	935.0	7.9
70°-80°	490.3	4.2
80°-90°	123.6	1.0
90°-100°	253.2	2.2
100°-110°	687.8	5.8
110°-120°	707.2	6.0
120°-130°	565.4	4.8
130°-140°	444.3	3.8
140°-150°	340.7	2.9
150°-160°	245.0	2.1
160°-170°	149.8	1.3
170°-180°	50.5	0.4
0°-30°	2470.1	21.0
0°-40°	3981.0	33.8
0°-60°	6784.0	57.6
0°-90°	8332.9	70.8
90°-120°	1648.3	14.0
90°-150°	2998.6	25.5
90°-180°	3444.0	29.2
0°-180°	11776.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3274	3274	3274	3274	3274	
5°	3283	3246	3257	3248	3243	311
15°	3124	3085	3090	3084	3078	881
25°	2856	2808	2804	2787	2796	1313
35°	2455	2421	2420	2398	2406	1535
45°	1973	1956	1947	1942	1939	1523
55°	1463	1460	1463	1442	1440	1305
65°	926	954	972	934	903	918
75°	427	466	490	458	415	458
85°	72	95	107	101	95	95
90°	2	7	12	15	15	5
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3274.4	3274.4	3274.4	3274.4	3274.4
2.5°	3292.8	3265.8	3274.4	3267.1	3251.3
5°	3283.0	3246.4	3257.1	3248.3	3242.6
7.5°	3249.6	3215.7	3223.6	3214.3	3210.9
10°	3219.6	3185.7	3193.6	3181.9	3176.3
12.5°	3184.9	3148.8	3156.7	3145.1	3141.7
15°	3124.4	3084.9	3089.7	3083.8	3078.2
17.5°	3054.0	3013.9	3014.7	3005.5	3004.3
20°	3003.2	2960.9	2957.0	2945.6	2951.3
22.5°	2947.8	2903.2	2899.3	2883.4	2891.3
25°	2856.1	2808.1	2804.1	2787.0	2795.5
27.5°	2749.9	2702.5	2702.6	2678.6	2687.6
30°	2671.4	2626.3	2631.0	2602.4	2613.7
32.5°	2588.3	2547.7	2550.3	2521.7	2533.0
35°	2455.1	2421.2	2420.4	2397.6	2406.0
37.5°	2318.9	2289.0	2284.3	2271.1	2273.3
40°	2224.3	2198.9	2189.6	2181.0	2181.0
42.5°	2125.0	2101.9	2092.7	2086.3	2084.1
45°	1973.3	1956.4	1947.3	1941.5	1938.7
47.5°	1823.3	1807.5	1799.6	1795.5	1792.7
50°	1719.4	1708.1	1705.0	1696.3	1693.4
52.5°	1615.5	1608.8	1605.7	1594.7	1591.9
55°	1462.6	1459.8	1462.6	1442.4	1439.6
57.5°	1303.4	1307.9	1317.2	1290.0	1283.2
60°	1197.2	1208.5	1220.3	1188.3	1177.0
62.5°	1088.8	1106.8	1123.4	1086.7	1070.9
65°	926.1	954.3	972.2	934.0	903.0
67.5°	769.1	804.1	825.7	784.5	749.5
70°	660.6	700.1	724.1	682.8	643.3
72.5°	566.0	610.0	629.5	590.5	551.0
75°	427.0	466.5	490.4	457.7	415.4
77.5°	302.9	340.2	360.0	331.5	296.6
80°	222.1	261.6	277.0	253.2	225.0
82.5°	157.5	190.2	200.8	186.5	167.3
85°	72.1	94.7	106.7	100.8	95.2
87.5°	18.8	35.6	46.2	47.0	49.2
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)