

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: P564544

Luminaire Tested: **SQ4-PW1-025U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564544
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

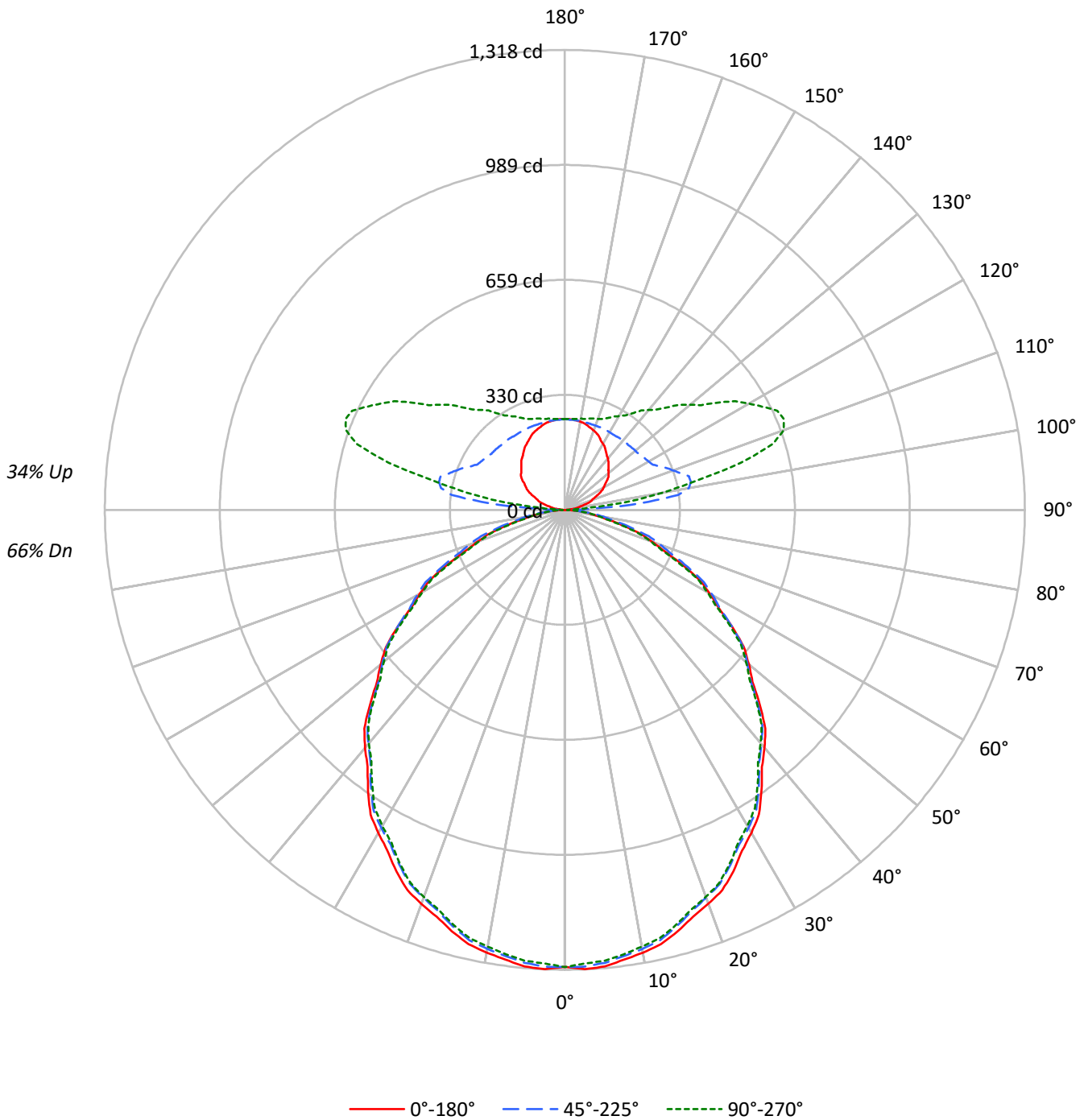
Lumens per Lamp: N/A
Luminaire Lumens: 5021.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	96	92	88	85	81	79	76	72	70	68	63	62	60	56
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	49	46	44	40
4	77	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	34
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	45	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	34	29	38	32	27	34	29	25	30	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	46	35	28	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6083	6035	6008
10°	6035	5986	5954
15°	5971	5904	5882
20°	5899	5809	5797
25°	5817	5711	5694
30°	5694	5608	5571
35°	5532	5454	5421
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4346
65°	4045	4246	3944
70°	3566	3907	3472
75°	3044	3497	2962
80°	2362	2943	2391
85°	1530	2260	2017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	2.5
10°-20°	348.3	6.9
20°-30°	516.7	10.3
30°-40°	604.6	12.0
40°-50°	601.9	12.0
50°-60°	519.7	10.3
60°-70°	374.1	7.5
70°-80°	196.2	3.9
80°-90°	50.0	1.0
90°-100°	126.8	2.5
100°-110°	333.5	6.6
110°-120°	345.8	6.9
120°-130°	277.3	5.5
130°-140°	217.6	4.3
140°-150°	167.0	3.3
150°-160°	120.3	2.4
160°-170°	73.6	1.5
170°-180°	24.9	0.5
0°-30°	988.4	19.7
0°-40°	1592.9	31.7
0°-60°	2714.6	54.1
0°-90°	3334.9	66.4
90°-120°	806.1	16.1
90°-150°	1468.1	29.2
90°-180°	1687.0	33.6
0°-180°	5021.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1314	1299	1303	1300	1298	124
15°	1250	1234	1236	1234	1232	352
25°	1143	1124	1122	1115	1119	525
35°	982	969	968	959	963	614
45°	790	783	779	777	776	609
55°	585	584	585	577	576	522
65°	371	382	389	374	361	367
75°	171	187	196	183	166	183
85°	29	38	43	40	38	38
90°	2	5	13	7	7	2
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

TEST NUMBER: P564544

CATALOG NUMBER: SQ4-PW1-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1317.6	1306.8	1310.2	1307.3	1301.0
5°	1313.7	1299.0	1303.3	1299.8	1297.5
7.5°	1300.3	1286.7	1289.9	1286.2	1284.8
10°	1288.3	1274.7	1277.9	1273.2	1271.0
12.5°	1274.4	1260.0	1263.1	1258.5	1257.1
15°	1250.2	1234.4	1236.3	1234.0	1231.7
17.5°	1222.0	1206.0	1206.3	1202.6	1202.2
20°	1201.7	1184.8	1183.2	1178.7	1180.9
22.5°	1179.5	1161.7	1160.1	1153.7	1156.9
25°	1142.8	1123.6	1122.0	1115.2	1118.6
27.5°	1100.3	1081.4	1081.4	1071.8	1075.4
30°	1068.9	1050.9	1052.8	1041.3	1045.9
32.5°	1035.7	1019.4	1020.5	1009.0	1013.5
35°	982.4	968.8	968.5	959.4	962.7
37.5°	927.9	915.9	914.0	908.7	909.6
40°	890.0	879.9	876.2	872.7	872.7
42.5°	850.3	841.1	837.4	834.8	833.9
45°	789.6	782.8	779.2	776.9	775.7
47.5°	729.6	723.2	720.1	718.5	717.3
50°	688.0	683.5	682.2	678.7	677.6
52.5°	646.4	643.7	642.5	638.1	637.0
55°	585.3	584.1	585.3	577.2	576.0
57.5°	521.5	523.4	527.1	516.2	513.5
60°	479.1	483.6	488.3	475.5	471.0
62.5°	435.7	442.9	449.5	434.8	428.5
65°	370.6	381.8	389.0	373.7	361.3
67.5°	307.8	321.8	330.4	313.9	299.9
70°	264.4	280.2	289.7	273.2	257.4
72.5°	226.5	244.1	251.9	236.3	220.5
75°	170.8	186.6	196.2	183.2	166.2
77.5°	121.2	136.1	144.1	132.7	118.7
80°	88.9	104.7	110.8	101.3	90.0
82.5°	63.0	76.1	80.3	74.6	67.0
85°	28.9	37.9	42.7	40.4	38.1
87.5°	7.7	14.7	20.2	18.9	19.8
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3



TEST NUMBER: P564544

CATALOG NUMBER: SQ4-PW1-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)