

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: P563358

Luminaire Tested: **SQ4-PP3-050U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563358
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

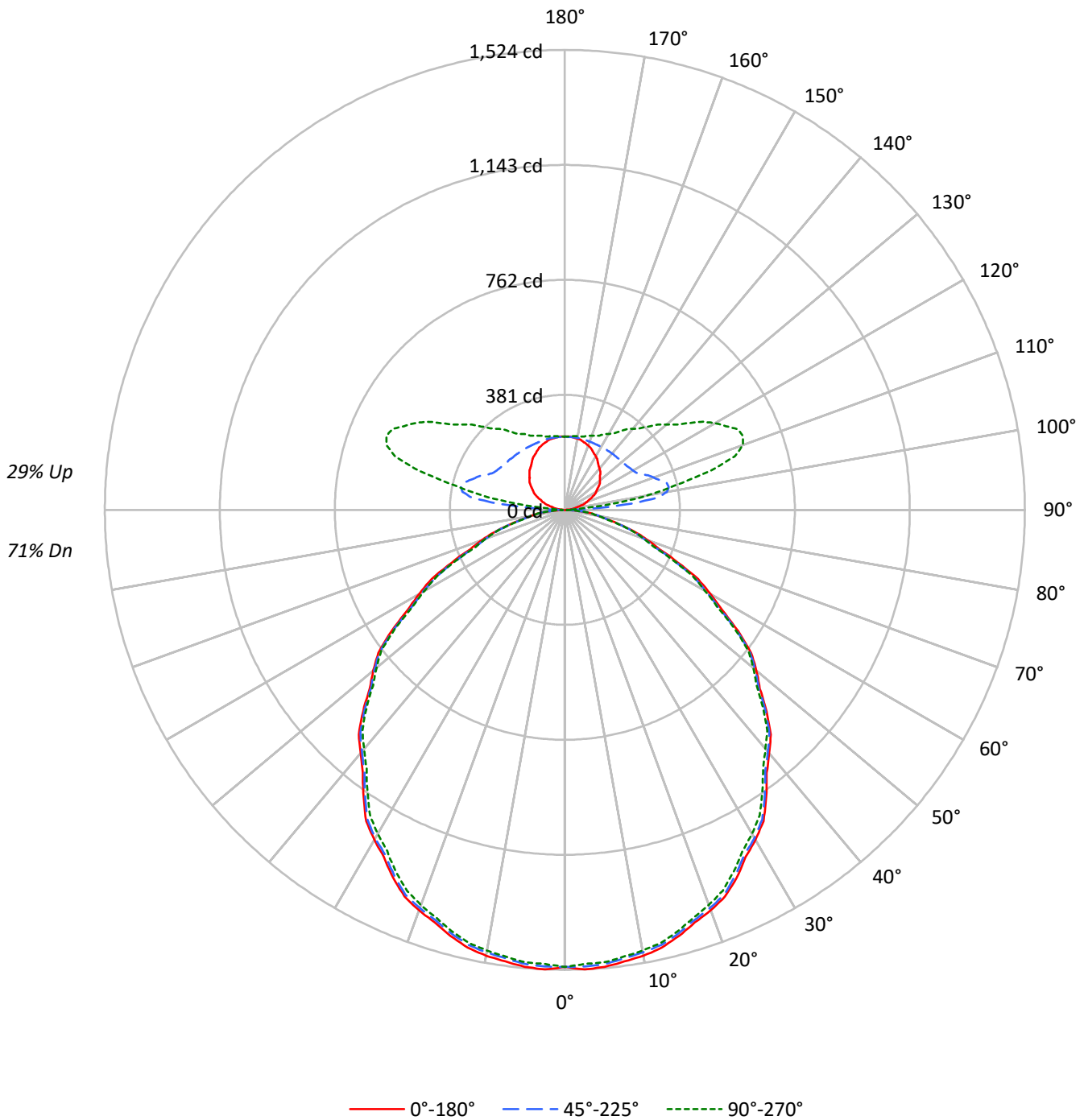
Lumens per Lamp: N/A
Luminaire Lumens: 5462.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13974	13974	13974
5°	14076	13991	13941
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13790	13685
25°	13702	13609	13473
30°	13449	13379	13209
35°	13098	13008	12843
40°	12679	12598	12455
45°	12333	12245	12124
50°	11889	11813	11699
55°	11274	11125	11039
60°	10263	9970	9920
65°	9042	8665	8636
70°	7807	7483	7483
75°	6720	6623	6531
80°	5924	5993	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	2.6
10°-20°	409.0	7.5
20°-30°	612.6	11.2
30°-40°	718.5	13.2
40°-50°	720.7	13.2
50°-60°	614.8	11.3
60°-70°	401.0	7.3
70°-80°	201.2	3.7
80°-90°	56.6	1.0
90°-100°	116.5	2.1
100°-110°	316.6	5.8
110°-120°	325.5	6.0
120°-130°	260.2	4.8
130°-140°	204.5	3.7
140°-150°	156.8	2.9
150°-160°	112.8	2.1
160°-170°	69.0	1.3
170°-180°	23.2	0.4
0°-30°	1164.7	21.3
0°-40°	1883.2	34.5
0°-60°	3218.8	58.9
0°-90°	3877.6	71.0
90°-120°	758.6	13.9
90°-150°	1380.1	25.3
90°-180°	1585.0	29.0
0°-180°	5462.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1520	1506	1511	1505	1505	144
15°	1462	1447	1454	1448	1446	412
25°	1346	1330	1337	1325	1324	619
35°	1163	1151	1155	1142	1140	726
45°	945	939	938	929	929	728
55°	701	698	692	688	686	623
65°	414	406	397	394	396	413
75°	188	188	186	184	183	204
85°	44	48	48	48	48	51
90°	1	3	6	7	7	3
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.6	1514.6	1514.6	1514.6	1514.6
2.5°	1524.2	1511.7	1514.6	1512.4	1506.1
5°	1519.9	1505.7	1510.7	1505.3	1505.3
7.5°	1509.6	1494.0	1499.0	1493.7	1493.4
10°	1500.0	1484.5	1489.4	1484.1	1482.8
12.5°	1486.2	1470.7	1476.7	1470.3	1470.0
15°	1461.5	1447.3	1453.6	1448.2	1445.6
17.5°	1433.7	1418.1	1425.7	1418.2	1417.2
20°	1412.4	1396.8	1404.5	1393.8	1393.8
22.5°	1386.9	1371.4	1380.0	1366.2	1366.2
25°	1346.0	1330.5	1336.8	1324.8	1323.5
27.5°	1297.5	1282.1	1288.7	1275.2	1274.9
30°	1262.4	1248.1	1255.8	1241.2	1239.9
32.5°	1224.2	1210.9	1216.5	1201.9	1200.6
35°	1162.9	1151.2	1154.9	1141.6	1140.3
37.5°	1098.3	1086.4	1090.6	1079.2	1078.7
40°	1052.7	1044.9	1046.0	1036.7	1034.1
42.5°	1010.2	1001.4	1002.5	993.2	992.7
45°	945.2	938.7	938.5	929.2	929.2
47.5°	876.1	871.2	869.8	862.0	861.8
50°	828.3	824.4	823.0	816.4	815.1
52.5°	778.4	776.6	772.1	766.5	766.2
55°	700.9	698.3	691.6	687.6	686.3
57.5°	616.7	611.5	604.0	598.2	599.2
60°	556.2	551.0	540.3	537.6	537.6
62.5°	497.8	491.6	480.8	477.1	479.2
65°	414.2	406.4	396.9	394.3	395.6
67.5°	338.2	331.2	321.0	321.0	319.9
70°	289.4	285.5	277.4	277.4	277.4
72.5°	245.8	244.0	238.1	238.1	237.1
75°	188.5	188.5	185.8	184.5	183.2
77.5°	141.2	141.8	140.4	139.1	136.7
80°	111.5	114.1	112.8	111.5	110.2
82.5°	83.9	86.5	86.3	83.9	83.6
85°	43.8	47.7	47.8	47.8	47.8
87.5°	11.8	16.4	18.1	18.4	19.5
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.0	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.5	266.3	514.4	601.2
120°	120.2	140.1	260.7	487.5	573.7
122.5°	127.1	146.9	257.0	460.6	543.8
125°	137.4	156.5	252.1	424.8	501.1
127.5°	146.6	165.5	249.5	397.7	463.2
130°	152.2	170.5	248.2	380.7	439.5
132.5°	157.8	176.2	247.0	366.2	418.2
135°	165.5	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.2	328.2	365.5
140°	178.8	194.8	243.5	316.9	350.5
142.5°	183.8	198.6	242.9	308.0	336.1
145°	191.2	205.0	242.0	294.0	316.1
147.5°	199.7	211.4	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.4	240.6	271.0	282.3
155°	216.2	223.9	240.4	264.0	271.6
157.5°	222.6	228.6	240.4	259.3	265.1
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.2	237.2	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.7	249.3
170°	239.6	241.2	242.0	247.4	247.4
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.5	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	244.0	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)