

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: P562694

Luminaire Tested: **SQ4-PC3-050U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562694
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

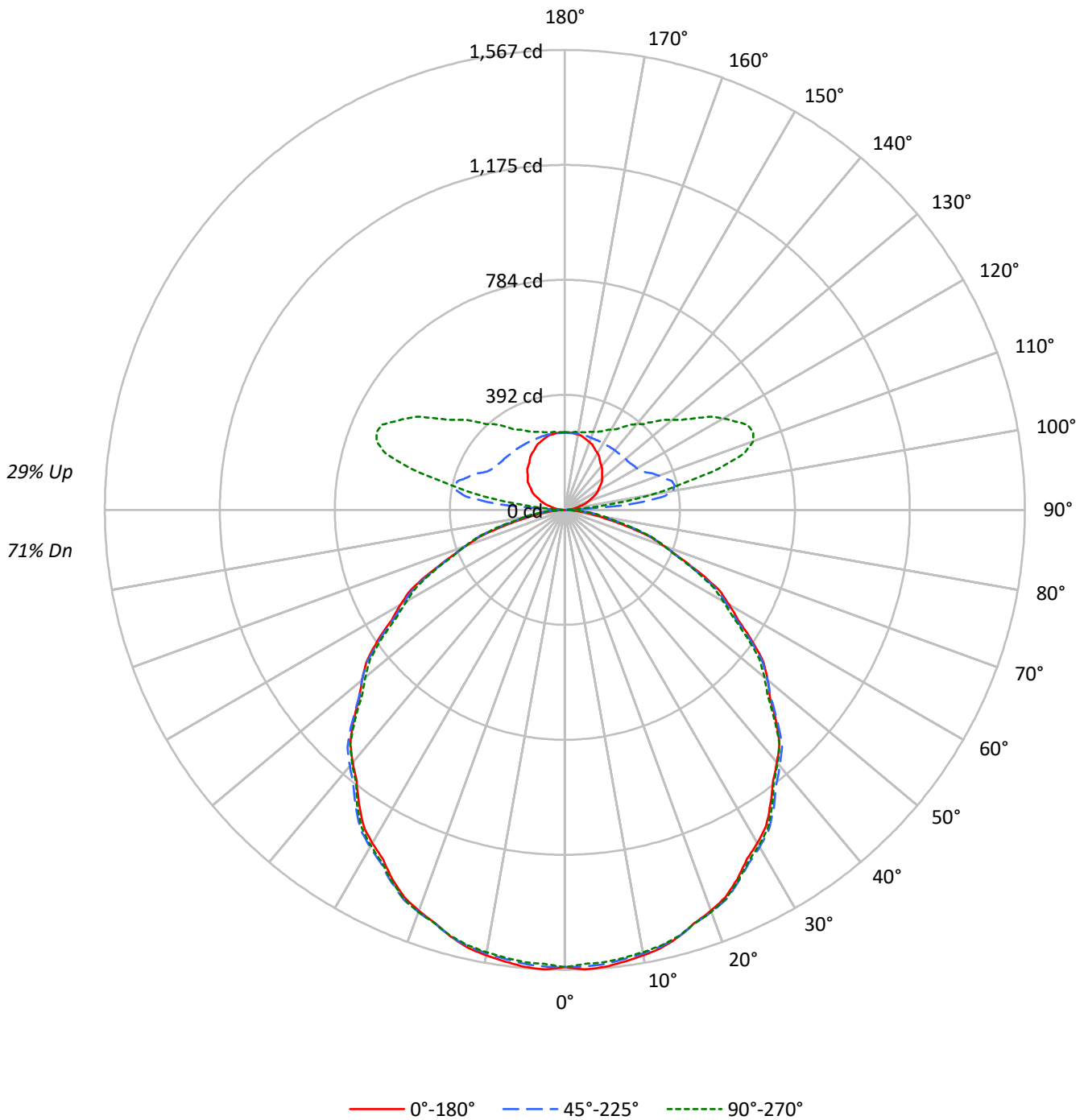
Lumens per Lamp: N/A
Luminaire Lumens: 5974.7 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14374	14374	14374
5°	14481	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13534	13724	13586
45°	13288	13382	13174
50°	12940	12940	12733
55°	12529	12366	12181
60°	11924	11684	11498
65°	11022	10802	10706
70°	9649	9727	9690
75°	7764	8587	8637
80°	5520	7279	7359
85°	3356	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.5
10°-20°	423.1	7.1
20°-30°	640.7	10.7
30°-40°	768.1	12.9
40°-50°	783.2	13.1
50°-60°	683.7	11.4
60°-70°	489.5	8.2
70°-80°	252.1	4.2
80°-90°	64.8	1.1
90°-100°	126.6	2.1
100°-110°	343.9	5.8
110°-120°	353.6	5.9
120°-130°	282.7	4.7
130°-140°	222.2	3.7
140°-150°	170.3	2.9
150°-160°	122.5	2.1
160°-170°	74.9	1.3
170°-180°	25.2	0.4
0°-30°	1211.2	20.3
0°-40°	1979.4	33.1
0°-60°	3446.3	57.7
0°-90°	4252.7	71.2
90°-120°	824.1	13.8
90°-150°	1499.3	25.1
90°-180°	1722.0	28.8
0°-180°	5974.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1564	1548	1554	1549	1548	148
15°	1504	1492	1504	1504	1503	424
25°	1389	1379	1399	1395	1395	639
35°	1222	1219	1240	1232	1232	764
45°	1018	1016	1026	1012	1010	784
55°	779	769	769	757	757	694
65°	505	494	495	490	490	499
75°	218	228	241	242	242	235
85°	32	49	58	59	58	43
90°	1	3	6	8	8	3
95°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.9	1557.9	1557.9	1557.9	1557.9
2.5°	1567.1	1553.5	1557.9	1554.3	1548.6
5°	1563.6	1548.1	1553.5	1549.2	1547.8
7.5°	1552.4	1536.9	1544.0	1541.1	1539.7
10°	1542.0	1526.5	1534.8	1531.9	1530.4
12.5°	1528.1	1513.7	1523.2	1520.3	1520.1
15°	1504.5	1491.8	1504.5	1504.4	1503.0
17.5°	1474.8	1463.2	1476.8	1477.6	1476.8
20°	1454.0	1441.3	1458.3	1456.9	1458.3
22.5°	1428.6	1418.2	1436.4	1432.7	1434.1
25°	1389.1	1379.2	1399.2	1394.9	1394.9
27.5°	1342.3	1335.3	1357.1	1352.4	1352.4
30°	1311.2	1304.1	1327.1	1321.3	1321.3
32.5°	1276.6	1271.8	1293.6	1286.7	1286.7
35°	1221.8	1218.9	1240.5	1231.9	1231.9
37.5°	1165.2	1162.7	1182.2	1171.8	1168.4
40°	1123.7	1122.3	1139.5	1128.0	1128.0
42.5°	1082.1	1080.7	1095.7	1081.8	1081.8
45°	1018.4	1015.6	1025.6	1012.5	1009.7
47.5°	948.8	946.0	952.3	938.1	936.7
50°	901.5	898.7	901.5	888.5	887.1
52.5°	853.1	848.0	848.5	835.5	835.2
55°	778.9	769.1	768.8	757.3	757.3
57.5°	700.5	687.5	688.6	678.8	677.4
60°	646.2	632.1	633.2	624.6	623.1
62.5°	593.1	576.8	580.2	570.3	570.1
65°	504.9	493.6	494.8	490.4	490.4
67.5°	420.0	409.6	417.2	413.7	413.4
70°	357.7	350.7	360.6	360.6	359.2
72.5°	300.0	299.7	312.1	312.2	313.0
75°	217.8	227.7	240.9	242.3	242.3
77.5°	145.4	162.9	177.4	178.0	177.7
80°	103.9	123.6	137.0	139.9	138.5
82.5°	70.4	91.3	102.4	105.3	103.9
85°	31.7	48.7	57.7	59.1	57.7
87.5°	9.4	20.1	24.3	24.6	22.3
90°	0.8	3.3	5.9	7.6	7.6
92.5°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)