

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: P563366

Luminaire Tested: **SQ4-PP3-050U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563366  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

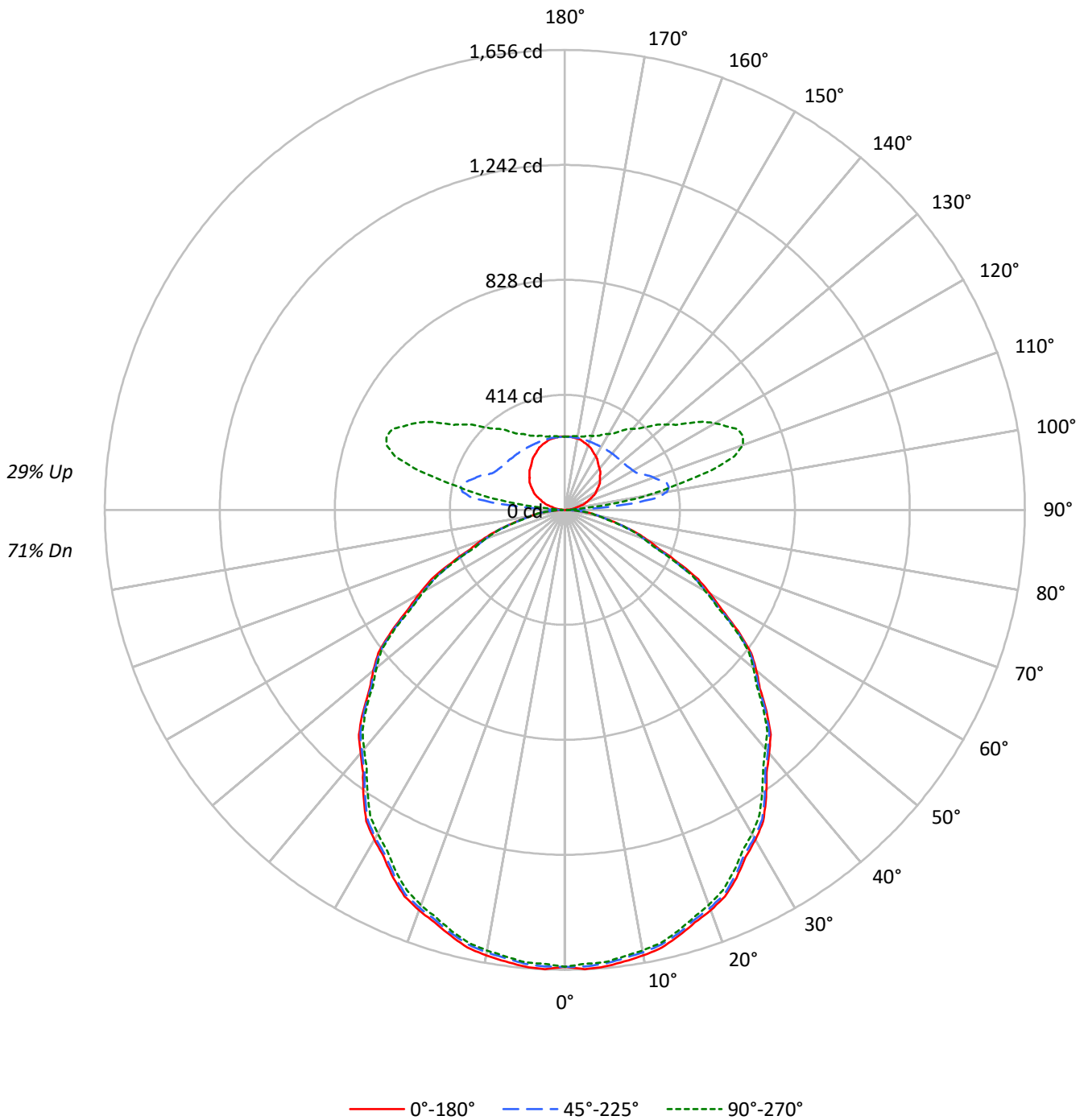
Lumens per Lamp: N/A  
Luminaire Lumens: 5934.4 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	55	55	55	51	
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	47	47	47	43	
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	47	44	40	37	
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	43	39	35	33	
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	39	34	31	29	
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	35	31	28	25	
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	33	28	25	23	
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	30	26	22	20	
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	28	24	20	19	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15158	15091
15°	15166	15083	15001
20°	15065	14981	14867
25°	14886	14783	14637
30°	14610	14534	14349
35°	14229	14131	13953
40°	13773	13687	13530
45°	13398	13304	13172
50°	12917	12833	12710
55°	12247	12085	11993
60°	11149	10830	10778
65°	9822	9414	9381
70°	8481	8130	8130
75°	7301	7197	7094
80°	6434	6514	6360
85°	5039	5494	5494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	2.6
10°-20°	444.3	7.5
20°-30°	665.5	11.2
30°-40°	780.5	13.2
40°-50°	783.0	13.2
50°-60°	668.0	11.3
60°-70°	435.6	7.3
70°-80°	218.6	3.7
80°-90°	61.5	1.0
90°-100°	126.6	2.1
100°-110°	343.9	5.8
110°-120°	353.6	6.0
120°-130°	282.7	4.8
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°	1265.3	21.3
0°-40°	2045.9	34.5
0°-60°	3496.8	58.9
0°-90°	4212.4	71.0
90°-120°	824.1	13.9
90°-150°	1499.3	25.3
90°-180°	1722.0	29.0
0°-180°	5934.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1651	1636	1641	1635	1635	157
15°	1588	1572	1579	1573	1570	448
25°	1462	1445	1452	1439	1438	672
35°	1263	1251	1255	1240	1239	789
45°	1027	1020	1020	1010	1010	791
55°	761	759	751	747	746	677
65°	450	442	431	428	430	449
75°	205	205	202	200	199	222
85°	48	52	52	52	52	56
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°	1645.4	1645.4	1645.4	1645.4	1645.4
2.5°	1655.8	1642.3	1645.4	1643.0	1636.2
5°	1651.2	1635.7	1641.1	1635.4	1635.4
7.5°	1640.0	1623.0	1628.4	1622.7	1622.4
10°	1629.6	1612.7	1618.0	1612.2	1610.8
12.5°	1614.6	1597.7	1604.2	1597.3	1597.0
15°	1587.8	1572.3	1579.1	1573.3	1570.5
17.5°	1557.5	1540.6	1548.8	1540.7	1539.6
20°	1534.4	1517.5	1525.8	1514.2	1514.2
22.5°	1506.7	1489.8	1499.2	1484.2	1484.2
25°	1462.3	1445.4	1452.2	1439.2	1437.8
27.5°	1409.5	1392.9	1400.0	1385.3	1385.0
30°	1371.4	1355.9	1364.2	1348.3	1346.9
32.5°	1329.9	1315.5	1321.6	1305.7	1304.2
35°	1263.3	1250.6	1254.6	1240.2	1238.8
37.5°	1193.2	1180.2	1184.8	1172.4	1171.9
40°	1143.6	1135.1	1136.4	1126.2	1123.4
42.5°	1097.4	1087.9	1089.1	1079.0	1078.4
45°	1026.8	1019.7	1019.6	1009.5	1009.5
47.5°	951.8	946.4	944.9	936.5	936.2
50°	899.9	895.6	894.1	886.9	885.5
52.5°	845.7	843.7	838.7	832.7	832.4
55°	761.4	758.6	751.3	747.0	745.6
57.5°	670.0	664.4	656.2	649.8	651.0
60°	604.2	598.6	586.9	584.1	584.1
62.5°	540.8	534.0	522.3	518.3	520.6
65°	449.9	441.5	431.2	428.3	429.7
67.5°	367.5	359.8	348.7	348.7	347.5
70°	314.4	310.2	301.4	301.4	301.4
72.5°	267.1	265.1	258.7	258.7	257.6
75°	204.8	204.8	201.9	200.4	199.0
77.5°	153.4	154.0	152.6	151.1	148.5
80°	121.1	124.0	122.6	121.1	119.7
82.5°	91.1	94.0	93.7	91.1	90.9
85°	47.6	51.8	51.9	51.9	51.9
87.5°	12.9	17.9	19.6	20.0	21.1
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)