

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: P563838

Luminaire Tested: **SQ4-PP3-150U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563838  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

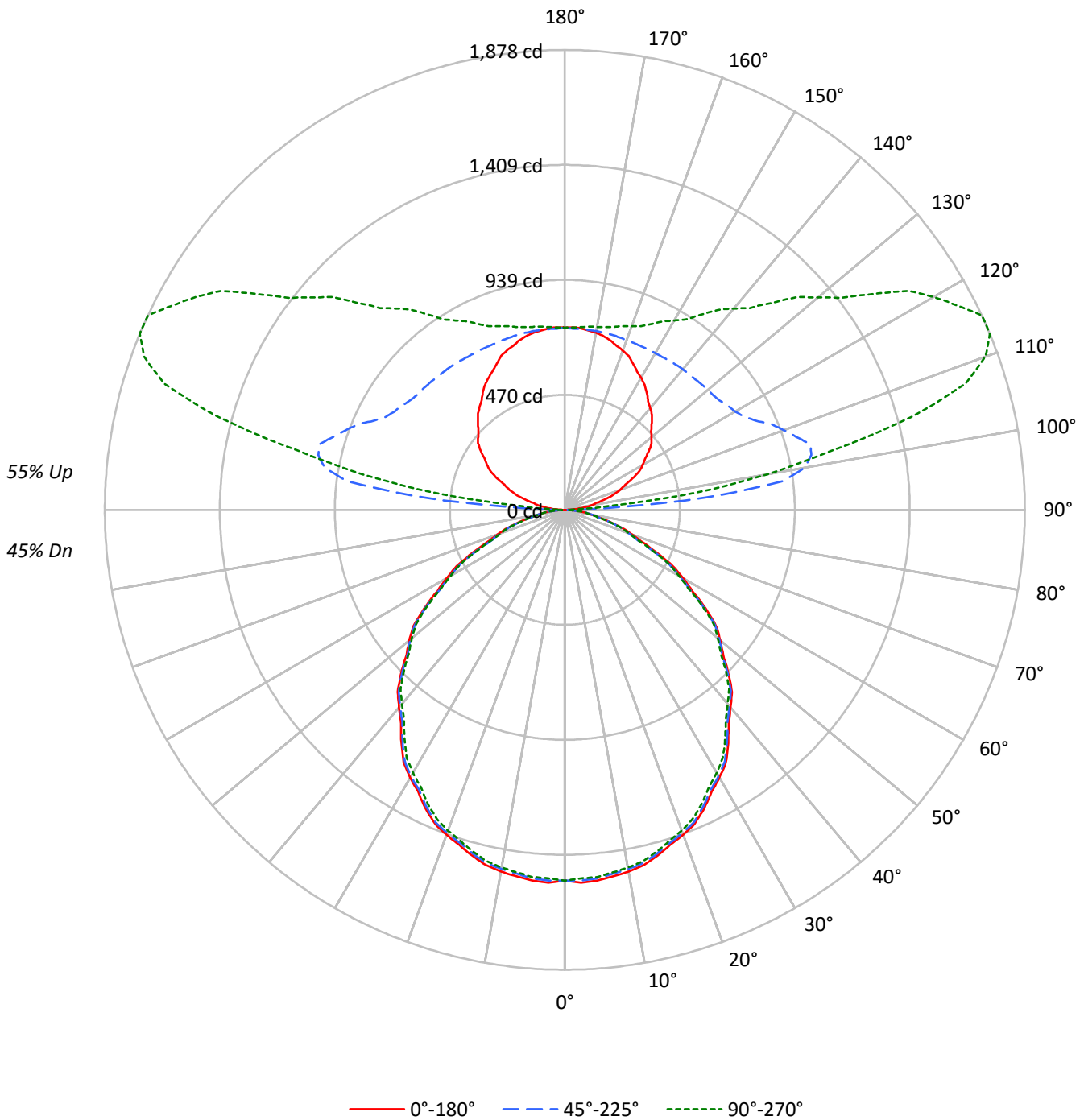
Lumens per Lamp: N/A  
Luminaire Lumens: 8671.7 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.1  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

**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	1.7
10°-20°	409.0	4.7
20°-30°	612.6	7.1
30°-40°	718.5	8.3
40°-50°	720.7	8.3
50°-60°	614.8	7.1
60°-70°	401.0	4.6
70°-80°	201.2	2.3
80°-90°	57.2	0.7
90°-100°	345.5	4.0
100°-110°	934.2	10.8
110°-120°	982.2	11.3
120°-130°	797.8	9.2
130°-140°	625.8	7.2
140°-150°	480.3	5.5
150°-160°	345.4	4.0
160°-170°	211.0	2.4
170°-180°	71.1	0.8
0°-30°	1164.7	13.4
0°-40°	1883.2	21.7
0°-60°	3218.8	37.1
0°-90°	3878.2	44.7
90°-120°	2262.0	26.1
90°-150°	4166.0	48.0
90°-180°	4794.0	55.3
0°-180°	8671.7	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	52
90°	2	5	10	11	10	5
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	

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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°	12.0	16.8	19.1	19.3	20.1
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)