

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: P564786

Luminaire Tested: **SQ4-PW1-075U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564786  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-125D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

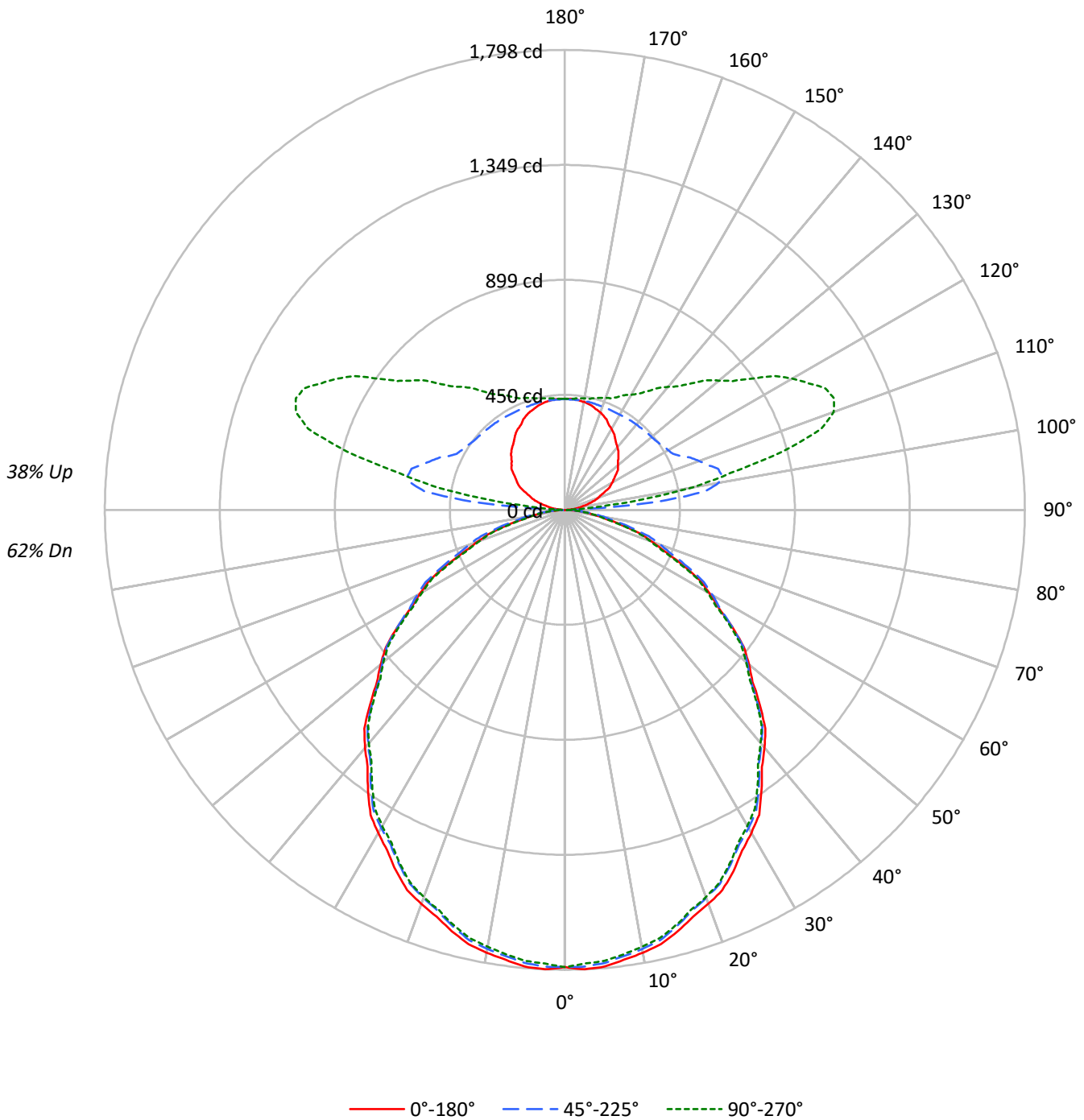
Lumens per Lamp: N/A  
Luminaire Lumens: 7375.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.1  
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

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

	0°	45°	90°
0°	16493	16493	16493
5°	16599	16468	16396
10°	16467	16334	16245
15°	16292	16112	16052
20°	16097	15850	15819
25°	15873	15585	15536
30°	15537	15303	15201
35°	15096	14883	14794
40°	14625	14397	14341
45°	14056	13871	13810
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11038	11588	10763
70°	9730	10663	9474
75°	8309	9543	8085
80°	6445	8033	6525
85°	4171	6172	5505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.3	2.3
10°-20°	475.2	6.4
20°-30°	704.9	9.6
30°-40°	824.9	11.2
40°-50°	821.2	11.1
50°-60°	709.1	9.6
60°-70°	510.4	6.9
70°-80°	267.7	3.6
80°-90°	67.5	0.9
90°-100°	204.6	2.8
100°-110°	562.9	7.6
110°-120°	581.0	7.9
120°-130°	465.5	6.3
130°-140°	365.6	5.0
140°-150°	280.2	3.8
150°-160°	201.4	2.7
160°-170°	123.2	1.7
170°-180°	41.5	0.6
0°-30°	1348.5	18.3
0°-40°	2173.4	29.5
0°-60°	3703.6	50.2
0°-90°	4549.2	61.7
90°-120°	1348.4	18.3
90°-150°	2459.7	33.4
90°-180°	2826.0	38.3
0°-180°	7375.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1792	1772	1778	1773	1770	170
15°	1706	1684	1687	1684	1680	481
25°	1559	1533	1531	1522	1526	717
35°	1340	1322	1321	1309	1314	838
45°	1077	1068	1063	1060	1058	831
55°	798	797	798	787	786	712
65°	506	521	531	510	493	501
75°	233	255	268	250	227	250
85°	39	52	58	55	52	52
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1787.6	1787.6	1787.6	1787.6	1787.6
2.5°	1797.7	1782.9	1787.6	1783.6	1775.0
5°	1792.3	1772.3	1778.1	1773.3	1770.3
7.5°	1774.0	1755.6	1759.9	1754.8	1752.9
10°	1757.7	1739.2	1743.5	1737.1	1734.0
12.5°	1738.8	1719.0	1723.3	1717.0	1715.1
15°	1705.7	1684.1	1686.8	1683.6	1680.5
17.5°	1667.3	1645.4	1645.8	1640.8	1640.2
20°	1639.5	1616.4	1614.3	1608.1	1611.2
22.5°	1609.3	1585.0	1582.8	1574.1	1578.4
25°	1559.2	1533.0	1530.9	1521.5	1526.1
27.5°	1501.3	1475.4	1475.4	1462.3	1467.2
30°	1458.4	1433.8	1436.4	1420.8	1426.9
32.5°	1413.1	1390.9	1392.3	1376.7	1382.8
35°	1340.3	1321.8	1321.4	1308.9	1313.5
37.5°	1266.0	1249.6	1247.1	1239.8	1241.1
40°	1214.3	1200.4	1195.4	1190.7	1190.7
42.5°	1160.1	1147.5	1142.5	1139.0	1137.8
45°	1077.3	1068.0	1063.1	1059.9	1058.4
47.5°	995.4	986.8	982.5	980.2	978.7
50°	938.7	932.5	930.8	926.0	924.5
52.5°	882.0	878.3	876.6	870.6	869.1
55°	798.5	797.0	798.5	787.4	785.9
57.5°	711.6	714.0	719.1	704.2	700.5
60°	653.6	659.8	666.2	648.7	642.6
62.5°	594.4	604.2	613.3	593.2	584.6
65°	505.6	521.0	530.8	509.9	493.0
67.5°	419.9	439.0	450.8	428.3	409.2
70°	360.7	382.2	395.3	372.8	351.2
72.5°	309.0	333.0	343.7	322.4	300.8
75°	233.1	254.7	267.7	249.9	226.8
77.5°	165.4	185.7	196.6	181.0	161.9
80°	121.3	142.8	151.2	138.2	122.8
82.5°	86.0	103.9	109.6	101.8	91.3
85°	39.4	51.7	58.3	55.1	52.0
87.5°	10.3	19.4	25.2	25.6	26.9
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)