

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: P562770

Luminaire Tested: **SQ4-PC3-075U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562770  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-125D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

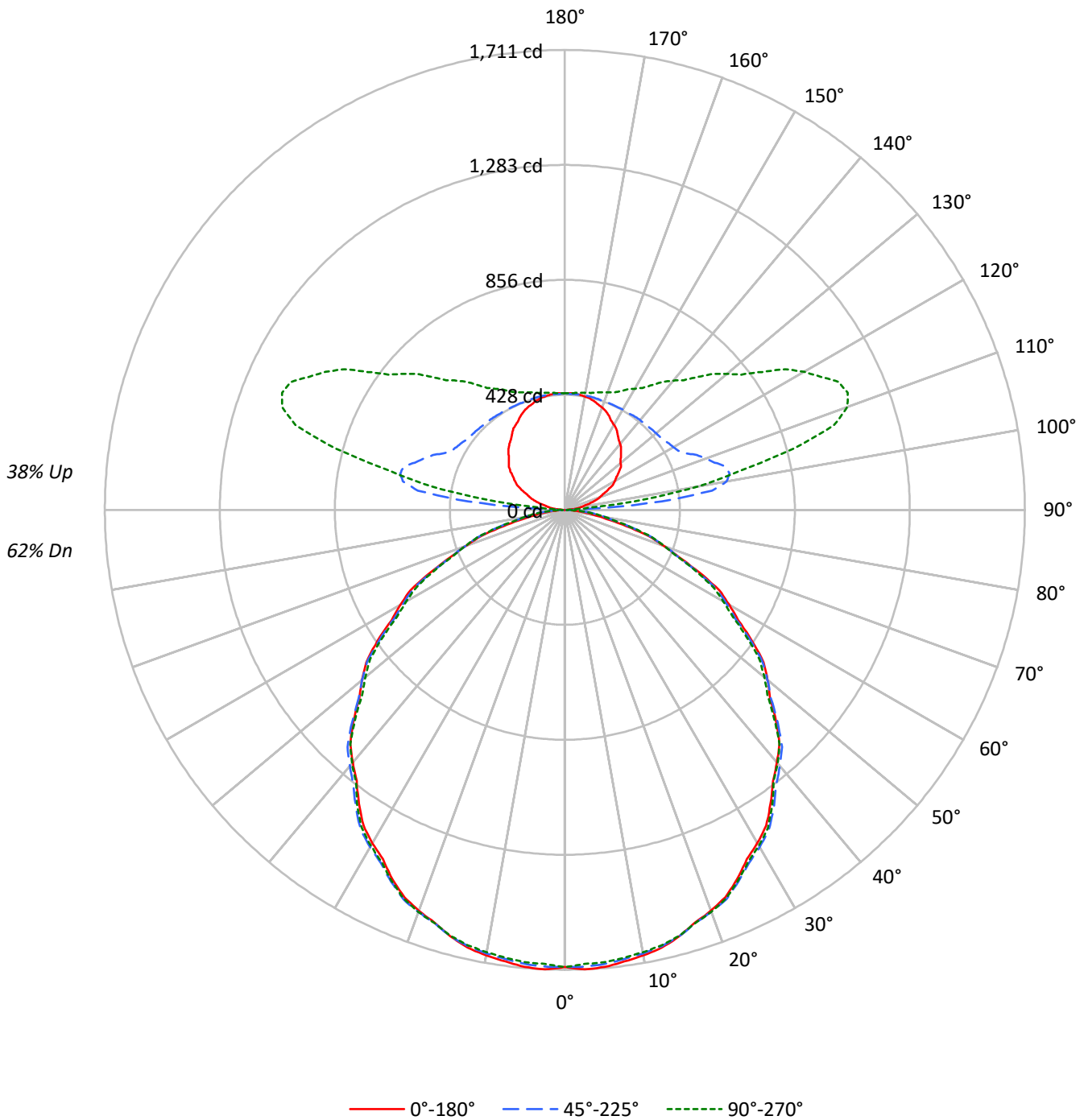
Lumens per Lamp: N/A  
Luminaire Lumens: 7469.1 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 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	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

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

	0°	45°	90°
0°	15694	15694	15694
5°	15812	15709	15651
10°	15773	15700	15655
15°	15691	15691	15675
20°	15588	15634	15634
25°	15440	15552	15504
30°	15252	15437	15370
35°	15025	15256	15149
40°	14777	14985	14833
45°	14508	14611	14385
50°	14128	14128	13903
55°	13681	13504	13301
60°	13020	12758	12555
65°	12033	11793	11691
70°	10537	10620	10580
75°	8477	9375	9432
80°	6025	7948	8033
85°	3663	6669	6669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	2.2
10°-20°	462.0	6.2
20°-30°	699.6	9.4
30°-40°	838.7	11.2
40°-50°	855.2	11.4
50°-60°	746.5	10.0
60°-70°	534.4	7.2
70°-80°	275.3	3.7
80°-90°	70.7	0.9
90°-100°	204.6	2.7
100°-110°	562.9	7.5
110°-120°	581.0	7.8
120°-130°	465.5	6.2
130°-140°	365.6	4.9
140°-150°	280.2	3.8
150°-160°	201.4	2.7
160°-170°	123.2	1.6
170°-180°	41.5	0.6
0°-30°	1322.5	17.7
0°-40°	2161.2	28.9
0°-60°	3762.9	50.4
0°-90°	4643.3	62.2
90°-120°	1348.4	18.1
90°-150°	2459.7	32.9
90°-180°	2826.0	37.8
0°-180°	7469.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1707	1690	1696	1692	1690	162
15°	1643	1629	1643	1643	1641	463
25°	1517	1506	1528	1523	1523	698
35°	1334	1331	1354	1345	1345	834
45°	1112	1109	1120	1106	1102	856
55°	850	840	840	827	827	758
65°	551	539	540	536	536	545
75°	238	249	263	265	265	257
85°	35	53	63	64	63	47
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°	1701.0	1701.0	1701.0	1701.0	1701.0
2.5°	1711.0	1696.3	1701.0	1697.0	1690.9
5°	1707.3	1690.3	1696.2	1691.5	1689.9
7.5°	1695.0	1678.0	1685.8	1682.7	1681.1
10°	1683.6	1666.7	1675.8	1672.6	1671.0
12.5°	1668.5	1652.8	1663.2	1660.0	1659.7
15°	1642.7	1628.8	1642.7	1642.6	1641.1
17.5°	1610.2	1597.6	1612.4	1613.4	1612.4
20°	1587.6	1573.7	1592.3	1590.7	1592.3
22.5°	1559.8	1548.4	1568.3	1564.3	1565.8
25°	1516.7	1505.9	1527.7	1523.0	1523.0
27.5°	1465.7	1458.0	1481.7	1476.7	1476.7
30°	1431.6	1423.9	1449.0	1442.7	1442.7
32.5°	1393.8	1388.6	1412.4	1404.9	1404.9
35°	1334.0	1330.9	1354.5	1345.0	1345.0
37.5°	1272.3	1269.5	1290.8	1279.4	1275.7
40°	1226.9	1225.4	1244.2	1231.6	1231.6
42.5°	1181.5	1180.0	1196.3	1181.2	1181.2
45°	1111.9	1108.8	1119.8	1105.6	1102.5
47.5°	1036.0	1032.9	1039.8	1024.3	1022.8
50°	984.3	981.3	984.3	970.1	968.6
52.5°	931.4	925.9	926.4	912.2	911.9
55°	850.5	839.7	839.5	826.9	826.9
57.5°	764.8	750.6	751.9	741.1	739.6
60°	705.6	690.2	691.4	681.9	680.4
62.5°	647.6	629.8	633.4	622.7	622.4
65°	551.2	538.9	540.2	535.5	535.5
67.5°	458.6	447.2	455.5	451.7	451.4
70°	390.6	382.9	393.7	393.7	392.2
72.5°	327.6	327.3	340.8	340.8	341.8
75°	237.8	248.6	263.0	264.6	264.6
77.5°	158.8	177.9	193.7	194.3	194.0
80°	113.4	135.0	149.6	152.7	151.2
82.5°	76.9	99.6	111.8	114.9	113.4
85°	34.6	53.1	63.0	64.5	63.0
87.5°	10.3	21.9	26.5	26.8	24.3
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

TEST NUMBER: P562770

CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-4

**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)