

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: P562749

Luminaire Tested: **SQ4-PC3-075U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562749  
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-100D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

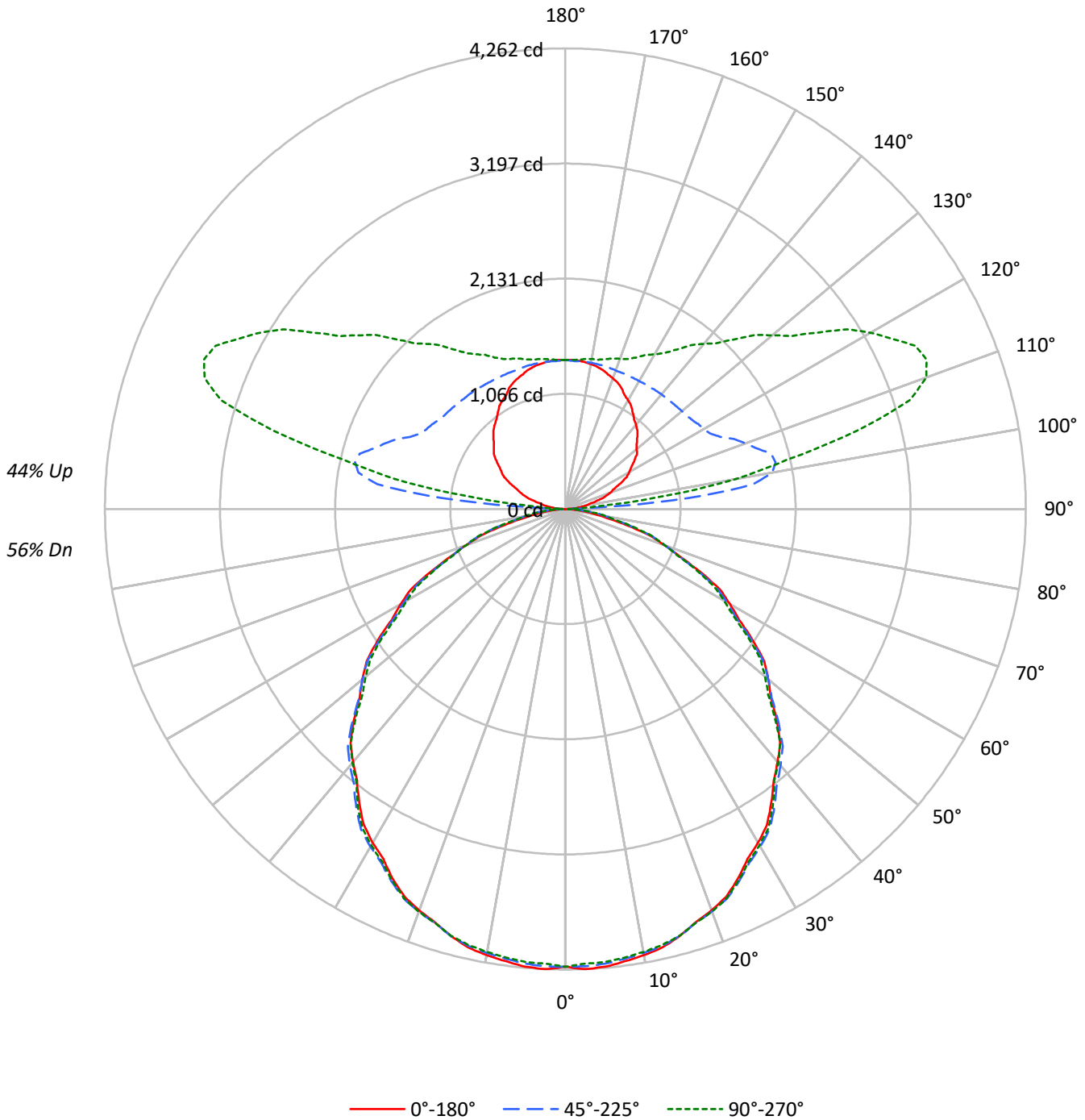
Lumens per Lamp: N/A  
Luminaire Lumens: 20546.8 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 162.2  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

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

	0°	45°	90°
0°	13029	13029	13029
5°	13127	13042	12993
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12911	12871
30°	12662	12815	12760
35°	12474	12665	12577
40°	12268	12441	12315
45°	12044	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8782
75°	7038	7784	7831
80°	5001	6599	6670
85°	3045	5536	5536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.9	2.0
10°-20°	1150.5	5.6
20°-30°	1742.4	8.5
30°-40°	2088.9	10.2
40°-50°	2129.9	10.4
50°-60°	1859.3	9.0
60°-70°	1331.1	6.5
70°-80°	685.6	3.3
80°-90°	176.9	0.9
90°-100°	650.2	3.2
100°-110°	1789.0	8.7
110°-120°	1846.5	9.0
120°-130°	1479.4	7.2
130°-140°	1162.0	5.7
140°-150°	890.5	4.3
150°-160°	640.2	3.1
160°-170°	391.5	1.9
170°-180°	132.0	0.6
0°-30°	3293.8	16.0
0°-40°	5382.7	26.2
0°-60°	9371.9	45.6
0°-90°	11565.4	56.3
90°-120°	4285.7	20.9
90°-150°	7817.7	38.0
90°-180°	8981.0	43.7
0°-180°	20546.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4236	4236	4236	4236	4236	
5°	4252	4210	4225	4213	4209	404
15°	4091	4057	4091	4091	4087	1154
25°	3777	3751	3805	3793	3793	1738
35°	3322	3315	3373	3350	3350	2078
45°	2769	2762	2789	2754	2746	2132
55°	2118	2091	2091	2059	2059	1888
65°	1373	1342	1345	1334	1334	1358
75°	592	619	655	659	659	640
85°	86	132	157	161	157	117
90°	3	12	20	26	26	10
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4261.5	4224.7	4236.4	4226.6	4211.3
5°	4252.1	4209.9	4224.6	4212.8	4208.9
7.5°	4221.5	4179.3	4198.7	4190.8	4187.0
10°	4193.2	4151.0	4173.6	4165.7	4161.9
12.5°	4155.6	4116.5	4142.2	4134.4	4133.6
15°	4091.2	4056.7	4091.2	4091.2	4087.3
17.5°	4010.4	3979.0	4015.9	4018.2	4015.9
20°	3954.0	3919.4	3965.7	3961.9	3965.7
22.5°	3884.9	3856.5	3906.1	3896.0	3899.8
25°	3777.4	3750.6	3804.9	3793.1	3793.1
27.5°	3650.4	3631.2	3690.4	3677.8	3677.8
30°	3565.6	3546.4	3608.8	3593.1	3593.1
32.5°	3471.5	3458.4	3517.8	3498.9	3498.9
35°	3322.4	3314.8	3373.4	3349.9	3349.9
37.5°	3168.7	3161.8	3214.9	3186.5	3177.3
40°	3055.7	3051.9	3098.8	3067.5	3067.5
42.5°	2942.7	2938.9	2979.6	2941.9	2941.9
45°	2769.3	2761.7	2789.0	2753.5	2745.8
47.5°	2580.3	2572.6	2589.7	2551.2	2547.3
50°	2451.6	2443.9	2451.6	2416.2	2412.4
52.5°	2319.8	2306.0	2307.3	2271.9	2271.2
55°	2118.2	2091.3	2090.7	2059.4	2059.4
57.5°	1904.8	1869.5	1872.6	1845.9	1842.0
60°	1757.3	1719.0	1722.0	1698.4	1694.6
62.5°	1613.0	1568.5	1577.7	1551.0	1550.2
65°	1372.9	1342.2	1345.4	1333.7	1333.7
67.5°	1142.3	1113.9	1134.4	1125.0	1124.2
70°	972.8	953.6	980.6	980.6	976.7
72.5°	815.9	815.1	848.8	848.9	851.2
75°	592.3	619.2	655.1	659.0	659.0
77.5°	395.4	443.0	482.5	484.0	483.3
80°	282.4	336.1	372.6	380.4	376.6
82.5°	191.4	248.2	278.5	286.3	282.4
85°	86.3	132.3	156.9	160.7	156.9
87.5°	25.7	55.0	66.9	67.9	61.8
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)