

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: P562753

Luminaire Tested: **SQ4-PC3-075U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562753  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

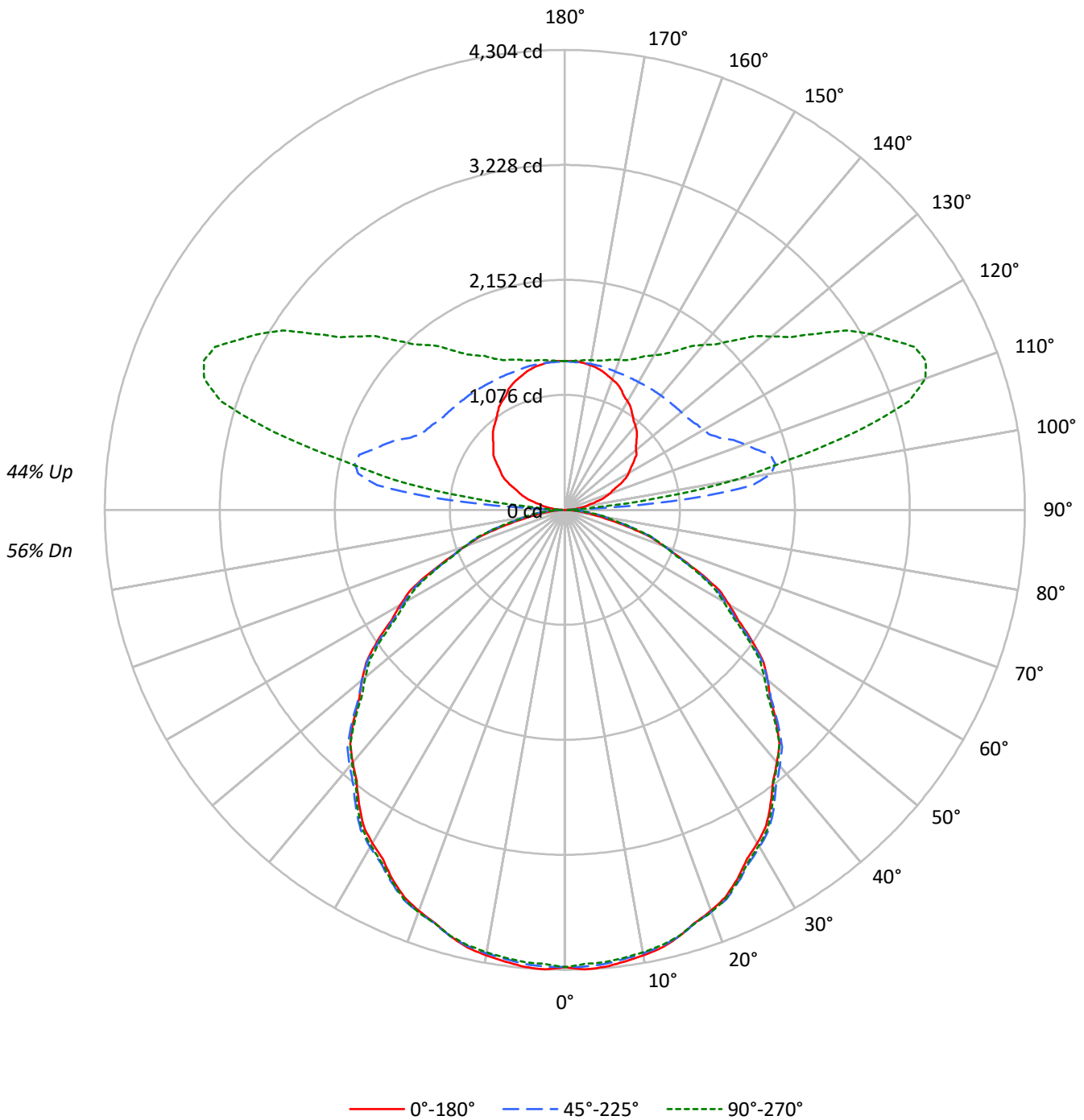
Lumens per Lamp: N/A  
Luminaire Lumens: 20753.5 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13127
15°	13157	13157	13145
20°	13070	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11848	11848	11658
55°	11472	11323	11153
60°	10918	10698	10528
65°	10091	9889	9803
70°	8835	8906	8871
75°	7109	7863	7909
80°	5053	6666	6737
85°	3077	5593	5593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.0	2.0
10°-20°	1162.1	5.6
20°-30°	1759.9	8.5
30°-40°	2109.9	10.2
40°-50°	2151.3	10.4
50°-60°	1878.0	9.0
60°-70°	1344.5	6.5
70°-80°	692.5	3.3
80°-90°	178.7	0.9
90°-100°	656.8	3.2
100°-110°	1807.0	8.7
110°-120°	1865.1	9.0
120°-130°	1494.3	7.2
130°-140°	1173.7	5.7
140°-150°	899.4	4.3
150°-160°	646.7	3.1
160°-170°	395.4	1.9
170°-180°	133.3	0.6
0°-30°	3327.0	16.0
0°-40°	5436.8	26.2
0°-60°	9466.2	45.6
0°-90°	11681.8	56.3
90°-120°	4328.8	20.9
90°-150°	7896.3	38.0
90°-180°	9072.0	43.7
0°-180°	20753.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4279	4279	4279	4279	4279	
5°	4295	4252	4267	4255	4251	408
15°	4132	4098	4132	4132	4128	1165
25°	3816	3788	3843	3831	3831	1756
35°	3356	3348	3407	3384	3384	2099
45°	2797	2790	2817	2781	2773	2153
55°	2140	2112	2112	2080	2080	1907
65°	1387	1356	1359	1347	1347	1371
75°	598	625	662	666	666	647
85°	87	134	158	162	158	119
90°	3	12	21	27	27	10
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4279.0	4279.0	4279.0	4279.0	4279.0
2.5°	4304.4	4267.2	4279.0	4269.2	4253.7
5°	4294.9	4252.2	4267.1	4255.2	4251.3
7.5°	4264.0	4221.3	4241.0	4233.0	4229.1
10°	4235.4	4192.8	4215.6	4207.6	4203.7
12.5°	4197.4	4157.9	4183.9	4176.0	4175.2
15°	4132.4	4097.6	4132.4	4132.3	4128.5
17.5°	4050.8	4019.0	4056.3	4058.7	4056.3
20°	3993.7	3958.9	4005.6	4001.8	4005.6
22.5°	3924.0	3895.3	3945.4	3935.2	3939.1
25°	3815.5	3788.3	3843.2	3831.3	3831.3
27.5°	3687.1	3667.7	3727.5	3714.8	3714.8
30°	3601.5	3582.1	3645.1	3629.2	3629.2
32.5°	3506.4	3493.2	3553.2	3534.1	3534.1
35°	3355.9	3348.1	3407.4	3383.6	3383.6
37.5°	3200.5	3193.6	3247.3	3218.6	3209.3
40°	3086.4	3082.6	3130.0	3098.3	3098.3
42.5°	2972.3	2968.5	3009.6	2971.5	2971.5
45°	2797.2	2789.5	2817.0	2781.2	2773.4
47.5°	2606.2	2598.5	2615.7	2576.8	2573.0
50°	2476.3	2468.5	2476.3	2440.5	2436.7
52.5°	2343.2	2329.2	2330.5	2294.8	2294.0
55°	2139.5	2112.4	2111.8	2080.1	2080.1
57.5°	1924.0	1888.3	1891.5	1864.5	1860.6
60°	1775.0	1736.3	1739.3	1715.5	1711.6
62.5°	1629.2	1584.3	1593.5	1566.6	1565.8
65°	1386.7	1355.7	1359.0	1347.1	1347.1
67.5°	1153.7	1125.1	1145.8	1136.3	1135.5
70°	982.6	963.2	990.5	990.4	986.6
72.5°	824.1	823.3	857.4	857.4	859.8
75°	598.3	625.4	661.7	665.6	665.6
77.5°	399.4	447.4	487.3	488.9	488.1
80°	285.3	339.5	376.4	384.2	380.4
82.5°	193.3	250.7	281.3	289.1	285.3
85°	87.2	133.7	158.5	162.4	158.5
87.5°	25.9	55.6	67.5	68.6	62.4
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)