

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: P562862

Luminaire Tested: **SQ4-PC3-0U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562862  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

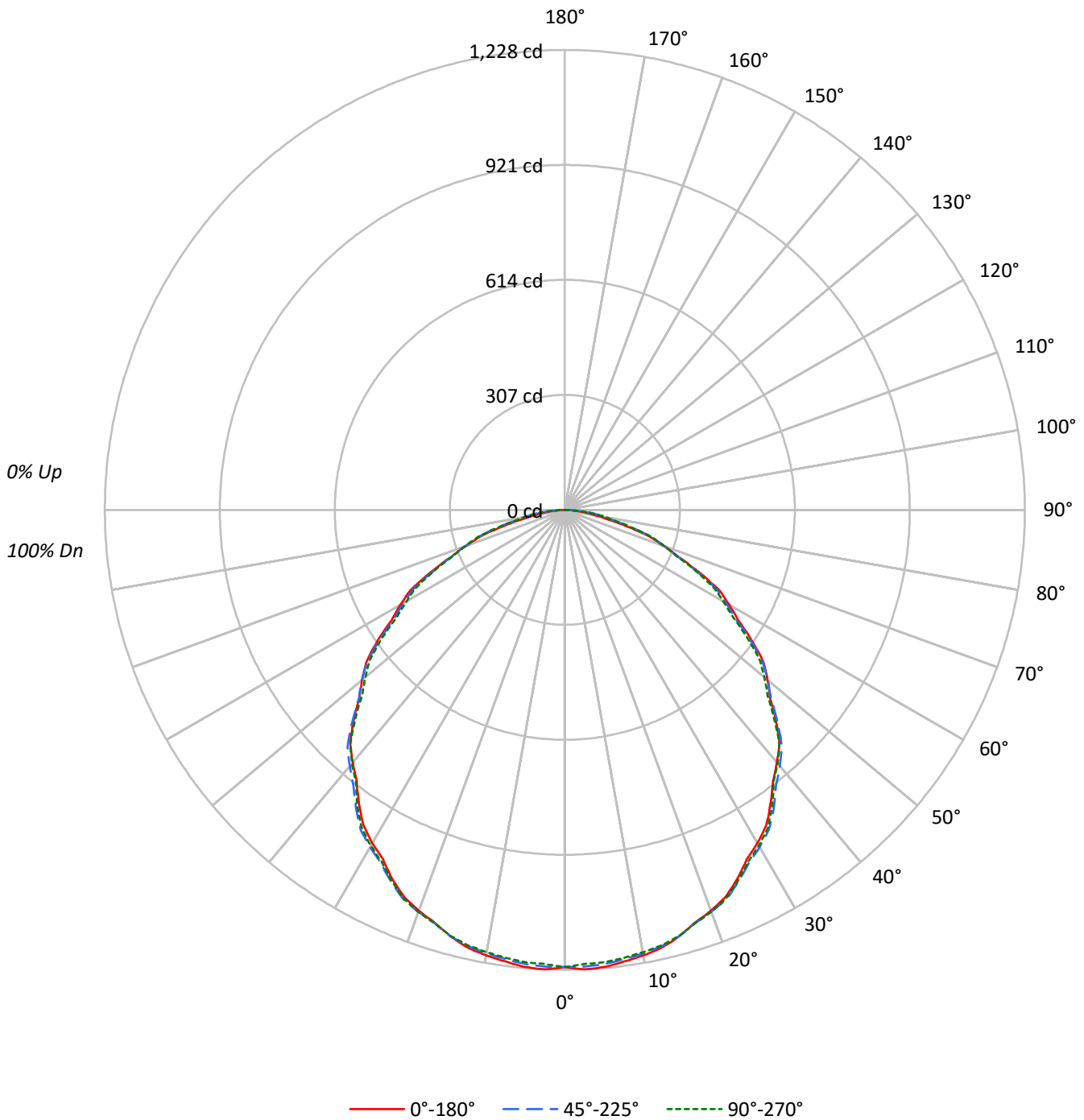
Lumens per Lamp: N/A  
Luminaire Lumens: 3331.7 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11232
10°	11320	11268	11236
15°	11260	11260	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10487	10323
50°	10141	10141	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7594
75°	6085	6730	6769
80°	4325	5706	5765
85°	2636	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	3.5
10°-20°	331.5	10.0
20°-30°	502.1	15.1
30°-40°	601.9	18.1
40°-50°	613.7	18.4
50°-60°	535.8	16.1
60°-70°	383.6	11.5
70°-80°	197.6	5.9
80°-90°	50.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	949.2	28.5
0°-40°	1551.1	46.6
0°-60°	2700.6	81.1
0°-90°	3331.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3331.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1225	1213	1217	1214	1213	116
15°	1179	1169	1179	1179	1178	332
25°	1088	1081	1096	1093	1093	501
35°	957	955	972	965	965	599
45°	798	796	804	793	791	614
55°	610	603	602	593	593	544
65°	396	387	388	384	384	391
75°	171	178	189	190	190	184
85°	25	38	45	46	45	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1228.0	1217.4	1220.8	1217.9	1213.5
5°	1225.3	1213.1	1217.4	1214.0	1212.8
7.5°	1216.5	1204.3	1209.9	1207.6	1206.5
10°	1208.3	1196.2	1202.7	1200.4	1199.3
12.5°	1197.5	1186.2	1193.6	1191.4	1191.1
15°	1178.9	1169.0	1178.9	1178.9	1177.8
17.5°	1155.7	1146.6	1157.2	1157.9	1157.2
20°	1139.4	1129.4	1142.8	1141.7	1142.8
22.5°	1119.5	1111.3	1125.6	1122.7	1123.8
25°	1088.5	1080.8	1096.4	1093.0	1093.0
27.5°	1051.9	1046.4	1063.4	1059.8	1059.8
30°	1027.5	1021.9	1039.9	1035.4	1035.4
32.5°	1000.3	996.6	1013.7	1008.3	1008.3
35°	957.4	955.2	972.1	965.3	965.3
37.5°	913.1	911.1	926.4	918.2	915.6
40°	880.5	879.4	893.0	883.9	883.9
42.5°	848.0	846.9	858.6	847.7	847.7
45°	798.0	795.8	803.7	793.4	791.2
47.5°	743.5	741.3	746.2	735.1	734.0
50°	706.5	704.2	706.5	696.3	695.2
52.5°	668.5	664.5	664.9	654.7	654.5
55°	610.4	602.6	602.5	593.4	593.4
57.5°	548.9	538.7	539.6	531.9	530.8
60°	506.4	495.3	496.2	489.4	488.3
62.5°	464.8	452.0	454.6	446.9	446.7
65°	395.6	386.8	387.7	384.3	384.3
67.5°	329.2	321.0	326.9	324.2	324.0
70°	280.3	274.8	282.6	282.6	281.5
72.5°	235.1	234.9	244.6	244.6	245.3
75°	170.7	178.4	188.8	189.9	189.9
77.5°	113.9	127.6	139.0	139.5	139.3
80°	81.4	96.9	107.4	109.6	108.5
82.5°	55.2	71.5	80.3	82.5	81.4
85°	24.9	38.1	45.2	46.3	45.2
87.5°	7.2	15.2	18.1	18.0	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)