

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: P562808

Luminaire Tested: **SQ4-PC3-0U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562808  
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-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

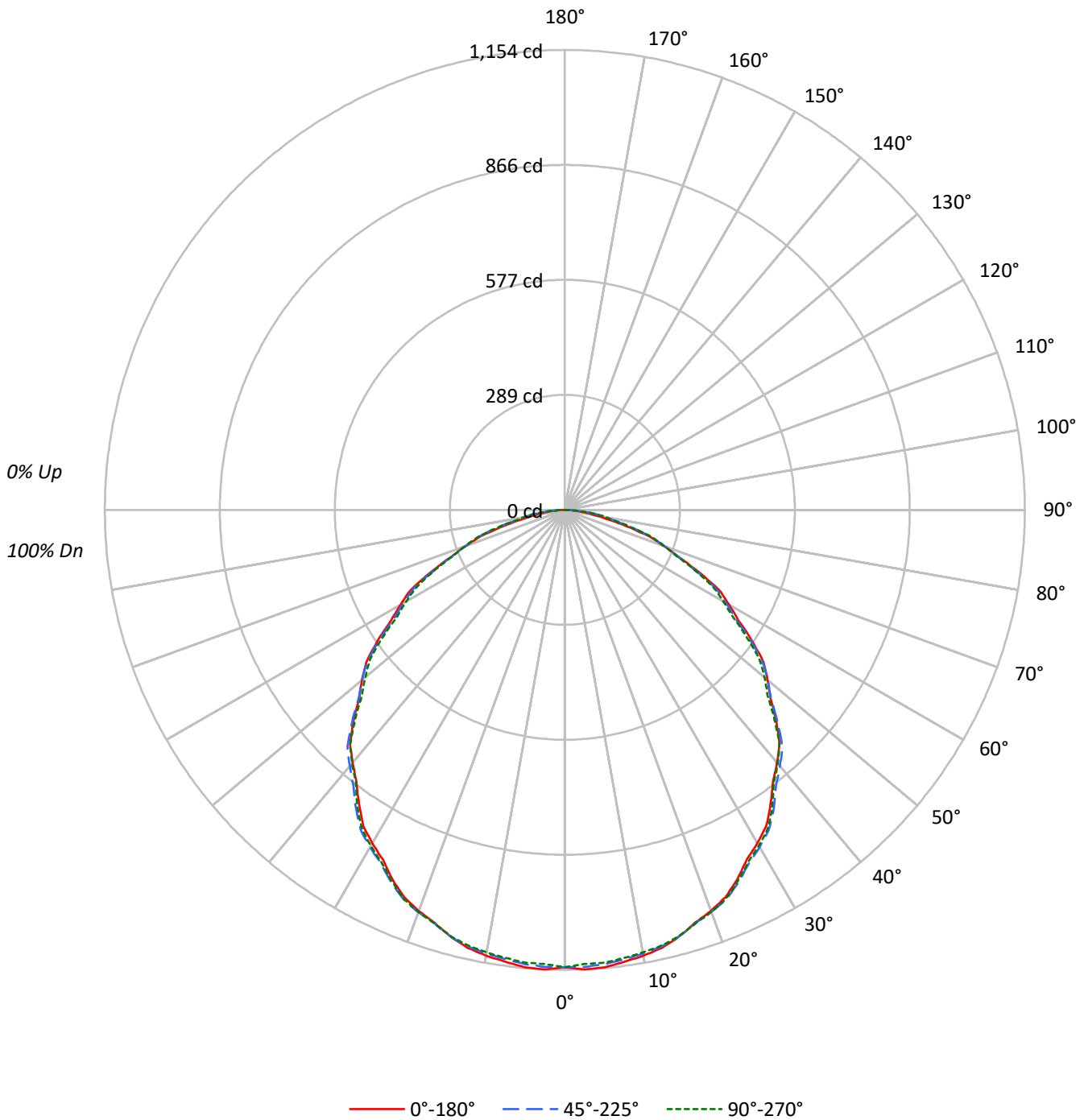
Lumens per Lamp: N/A  
Luminaire Lumens: 3132.0 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85			85	
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71			71	
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60			60	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51			51	
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44			44	
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39			39	
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34	
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28			28	
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25	

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

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5111
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3569
75°	2861	3164	3182
80°	2032	2680	2710
85°	1239	2249	2249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.6	3.5
10°-20°	311.7	10.0
20°-30°	472.0	15.1
30°-40°	565.9	18.1
40°-50°	577.0	18.4
50°-60°	503.7	16.1
60°-70°	360.6	11.5
70°-80°	185.7	5.9
80°-90°	47.0	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°	892.3	28.5
0°-40°	1458.1	46.6
0°-60°	2538.8	81.1
0°-90°	3132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3132.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1140	1144	1141	1140	109
15°	1108	1099	1108	1108	1107	312
25°	1023	1016	1031	1028	1028	471
35°	900	898	914	908	908	563
45°	750	748	756	746	744	577
55°	574	566	566	558	558	511
65°	372	364	364	361	361	368
75°	160	168	178	178	178	173
85°	23	36	42	44	42	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1154.4	1144.4	1147.6	1145.0	1140.8
5°	1151.9	1140.4	1144.4	1141.2	1140.2
7.5°	1143.6	1132.1	1137.4	1135.3	1134.2
10°	1135.9	1124.5	1130.6	1128.5	1127.4
12.5°	1125.7	1115.1	1122.1	1120.0	1119.8
15°	1108.3	1098.9	1108.3	1108.3	1107.2
17.5°	1086.4	1077.9	1087.9	1088.5	1087.9
20°	1071.1	1061.7	1074.3	1073.2	1074.3
22.5°	1052.4	1044.7	1058.1	1055.4	1056.4
25°	1023.3	1016.0	1030.7	1027.5	1027.5
27.5°	988.9	983.7	999.7	996.3	996.3
30°	965.9	960.7	977.6	973.3	973.3
32.5°	940.4	936.9	952.9	947.8	947.8
35°	900.0	897.9	913.8	907.5	907.5
37.5°	858.4	856.5	870.9	863.2	860.7
40°	827.8	826.7	839.5	831.0	831.0
42.5°	797.2	796.1	807.1	796.9	796.9
45°	750.2	748.1	755.5	745.9	743.8
47.5°	699.0	696.9	701.5	691.1	690.1
50°	664.1	662.0	664.1	654.5	653.5
52.5°	628.4	624.7	625.0	615.5	615.2
55°	573.8	566.5	566.4	557.9	557.9
57.5°	516.0	506.4	507.3	500.0	499.0
60°	476.0	465.7	466.5	460.1	459.0
62.5°	436.9	424.9	427.4	420.1	419.9
65°	371.9	363.6	364.5	361.3	361.3
67.5°	309.4	301.7	307.3	304.7	304.5
70°	263.5	258.3	265.6	265.6	264.6
72.5°	221.0	220.8	229.9	230.0	230.6
75°	160.5	167.7	177.5	178.5	178.5
77.5°	107.1	120.0	130.7	131.1	130.9
80°	76.5	91.1	100.9	103.0	102.0
82.5°	51.9	67.2	75.4	77.5	76.5
85°	23.4	35.8	42.5	43.5	42.5
87.5°	6.8	14.3	17.0	17.0	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)