

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: P561595

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561595  
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-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3819.3 lumens  
Efficiency: N/A  
Efficacy: 90.3 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: Direct

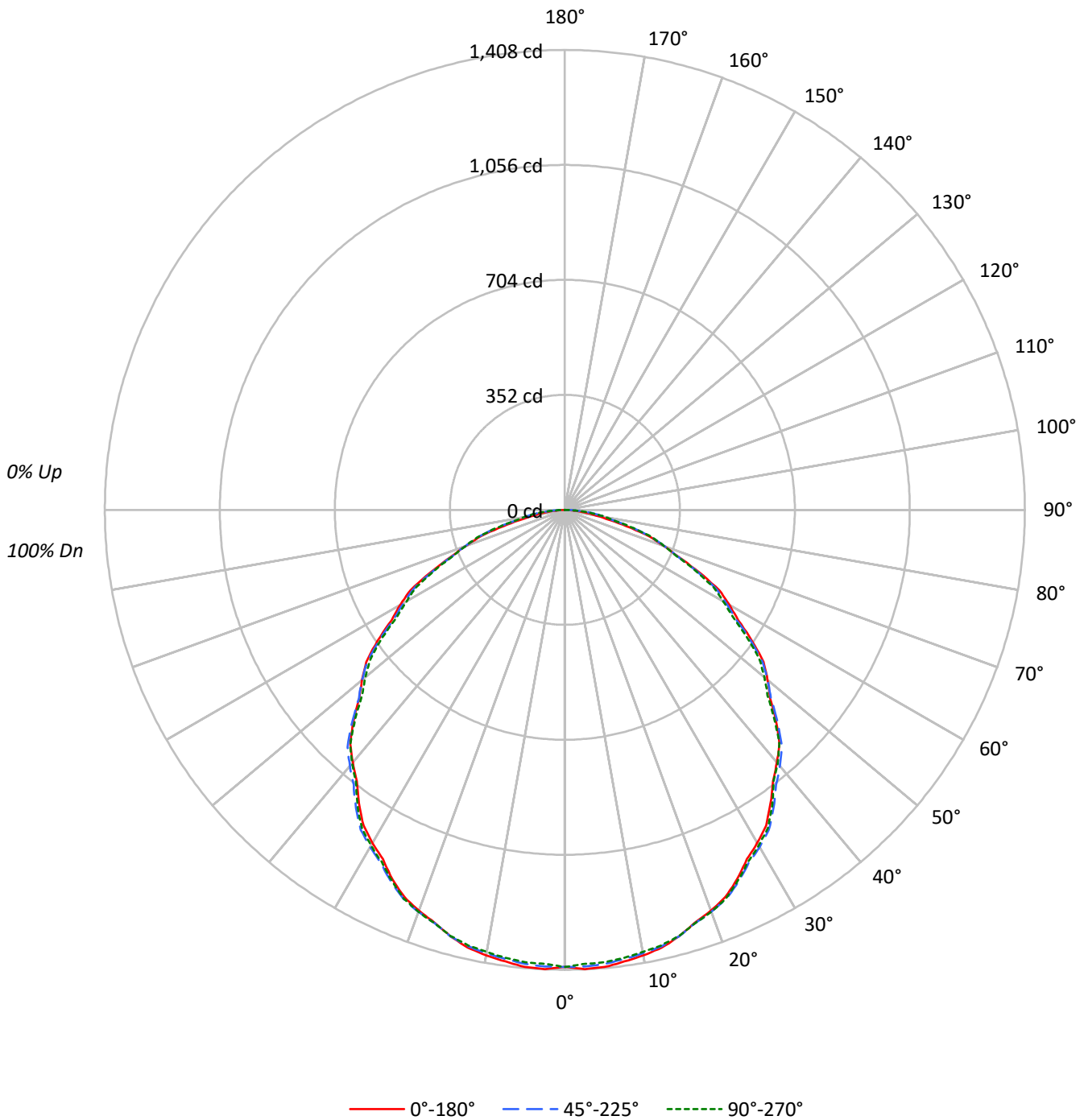
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	12911	12911	12911
5°	13009	12924	12877
10°	12977	12916	12880
15°	12909	12909	12897
20°	12824	12862	12862
25°	12703	12795	12756
30°	12548	12700	12645
35°	12361	12552	12464
40°	12157	12329	12204
45°	11936	12021	11834
50°	11625	11625	11438
55°	11255	11109	10943
60°	10712	10496	10330
65°	9900	9702	9619
70°	8667	8737	8702
75°	6976	7714	7760
80°	4957	6540	6610
85°	3017	5483	5483



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	3.5
10°-20°	380.1	10.0
20°-30°	575.6	15.1
30°-40°	690.0	18.1
40°-50°	703.6	18.4
50°-60°	614.2	16.1
60°-70°	439.7	11.5
70°-80°	226.5	5.9
80°-90°	57.3	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°	1088.1	28.5
0°-40°	1778.1	46.6
0°-60°	3095.9	81.1
0°-90°	3819.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3819.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1405	1391	1396	1392	1390	133
15°	1352	1340	1352	1351	1350	381
25°	1248	1239	1257	1253	1253	574
35°	1098	1095	1114	1107	1107	686
45°	915	912	921	910	907	704
55°	700	691	691	680	680	624
65°	454	443	444	441	441	449
75°	196	204	216	218	218	211
85°	28	44	52	53	52	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1407.7	1395.6	1399.4	1396.2	1391.1
5°	1404.6	1390.7	1395.5	1391.6	1390.4
7.5°	1394.5	1380.6	1387.0	1384.4	1383.1
10°	1385.2	1371.2	1378.7	1376.1	1374.8
12.5°	1372.7	1359.8	1368.3	1365.7	1365.5
15°	1351.5	1340.1	1351.5	1351.4	1350.2
17.5°	1324.8	1314.4	1326.6	1327.4	1326.6
20°	1306.1	1294.7	1310.0	1308.7	1310.0
22.5°	1283.3	1273.9	1290.3	1287.0	1288.2
25°	1247.8	1238.9	1256.9	1253.0	1253.0
27.5°	1205.8	1199.5	1219.1	1214.9	1214.9
30°	1177.8	1171.5	1192.1	1186.9	1186.9
32.5°	1146.7	1142.4	1162.0	1155.8	1155.8
35°	1097.5	1095.0	1114.4	1106.6	1106.6
37.5°	1046.7	1044.4	1062.0	1052.6	1049.6
40°	1009.4	1008.1	1023.7	1013.3	1013.3
42.5°	972.1	970.8	984.3	971.8	971.8
45°	914.8	912.3	921.3	909.6	907.0
47.5°	852.4	849.8	855.5	842.7	841.5
50°	809.9	807.3	809.9	798.2	796.9
52.5°	766.3	761.8	762.2	750.5	750.2
55°	699.7	690.8	690.6	680.3	680.3
57.5°	629.2	617.6	618.6	609.8	608.5
60°	580.5	567.8	568.8	561.0	559.8
62.5°	532.8	518.1	521.2	512.3	512.1
65°	453.5	443.4	444.4	440.6	440.6
67.5°	377.3	367.9	374.7	371.6	371.4
70°	321.3	315.0	323.9	323.9	322.6
72.5°	269.5	269.3	280.4	280.4	281.2
75°	195.7	204.5	216.4	217.7	217.7
77.5°	130.6	146.3	159.4	159.9	159.6
80°	93.3	111.0	123.1	125.7	124.4
82.5°	63.2	82.0	92.0	94.6	93.3
85°	28.5	43.7	51.8	53.1	51.8
87.5°	8.3	17.4	20.7	20.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)