

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

Brand: CORELITE

Report Number: P688668

Luminaire Tested: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_4500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-075D-93050-1-UNV-STD-W-4\_4500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 4500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3138.3 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

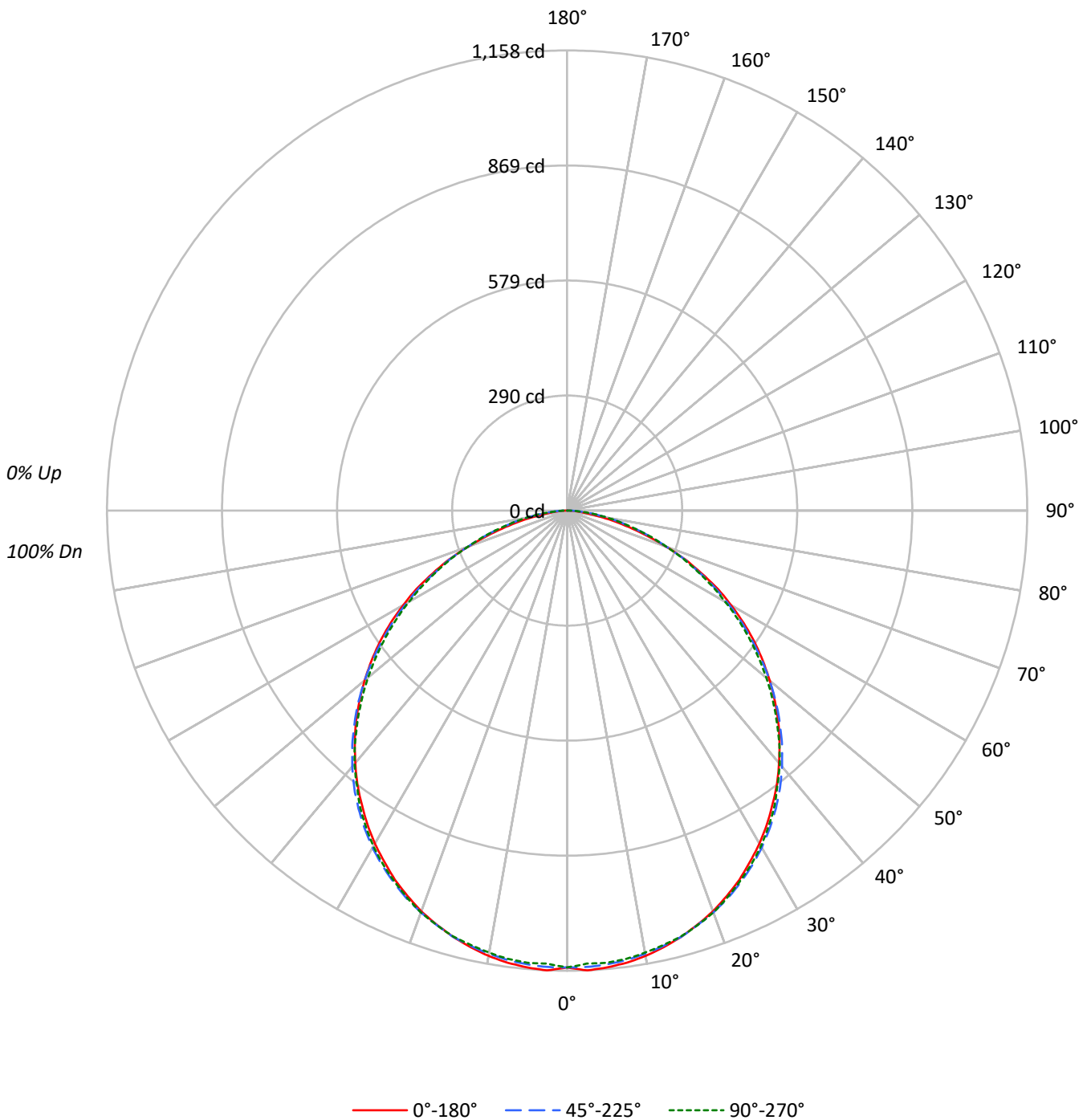
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	11069	11069	11069
5°	11152	11080	11039
10°	11125	11073	11042
15°	11066	11066	11055
20°	10994	11026	11026
25°	10890	10969	10935
30°	10758	10888	10840
35°	10598	10760	10684
40°	10422	10569	10463
45°	10233	10305	10146
50°	9965	9965	9806
55°	9650	9524	9381
60°	9183	8998	8855
65°	8488	8317	8244
70°	7431	7490	7462
75°	5978	6614	6651
80°	4247	5605	5666
85°	2585	4706	4706

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 10305 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	3.5
10°-20°	312.4	10.0
20°-30°	473.1	15.1
30°-40°	567.3	18.1
40°-50°	578.4	18.4
50°-60°	504.8	16.1
60°-70°	361.4	11.5
70°-80°	185.6	5.9
80°-90°	46.4	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°	894.4	28.5
0°-40°	1461.6	46.6
0°-60°	2544.8	81.1
0°-90°	3138.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1154	1142	1146	1143	1142	110
15°	1110	1101	1110	1110	1109	313
25°	1025	1018	1033	1029	1029	472
35°	902	900	916	909	909	564
45°	752	749	757	747	745	579
55°	575	567	567	559	559	513
65°	373	364	365	362	362	369
75°	161	168	178	179	179	173
85°	23	36	43	44	43	32
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1149.7	1149.7	1149.7	1149.7	1149.7
2.5°	1158.2	1145.4	1149.7	1146.5	1141.2
5°	1154.0	1142.3	1146.5	1143.3	1142.3
7.5°	1147.6	1135.9	1141.2	1139.1	1138.0
10°	1138.0	1126.3	1132.7	1130.5	1129.5
12.5°	1125.2	1114.6	1122.0	1119.9	1119.9
15°	1110.3	1100.7	1110.3	1110.3	1109.2
17.5°	1092.2	1083.7	1093.3	1094.3	1093.3
20°	1073.1	1063.5	1076.2	1075.2	1076.2
22.5°	1049.6	1042.2	1056.0	1052.8	1053.9
25°	1025.2	1017.7	1032.6	1029.4	1029.4
27.5°	996.4	991.1	1007.1	1003.9	1003.9
30°	967.7	962.3	979.4	975.1	975.1
32.5°	935.7	932.5	948.5	943.2	943.2
35°	901.7	899.5	915.5	909.1	909.1
37.5°	867.6	865.5	880.4	872.9	869.7
40°	829.3	828.2	841.0	832.5	832.5
42.5°	791.0	789.9	800.5	789.9	789.9
45°	751.6	749.4	756.9	747.3	745.2
47.5°	709.0	706.9	712.2	701.5	700.5
50°	665.3	663.2	665.3	655.8	654.7
52.5°	620.6	616.4	616.4	606.8	606.8
55°	574.9	567.4	567.4	558.9	558.9
57.5°	526.9	517.4	518.4	511.0	509.9
60°	476.9	466.3	467.3	460.9	459.9
62.5°	427.9	415.2	418.4	410.9	410.9
65°	372.6	364.1	365.1	361.9	361.9
67.5°	321.5	313.0	318.3	315.1	315.1
70°	264.0	258.7	266.1	266.1	265.1
72.5°	210.8	211.8	221.4	221.4	222.5
75°	160.7	168.2	177.8	178.8	178.8
77.5°	115.0	127.7	138.4	138.4	138.4
80°	76.6	91.6	101.1	103.3	102.2
82.5°	45.8	61.7	69.2	71.3	70.3
85°	23.4	36.2	42.6	43.6	42.6
87.5°	8.5	18.1	21.3	21.3	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)