

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: P688479

Luminaire Tested: SQ4R-PC3-100D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688479
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-PC3-100D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3173.5 lumens
Efficiency: N/A
Efficacy: 85.8 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

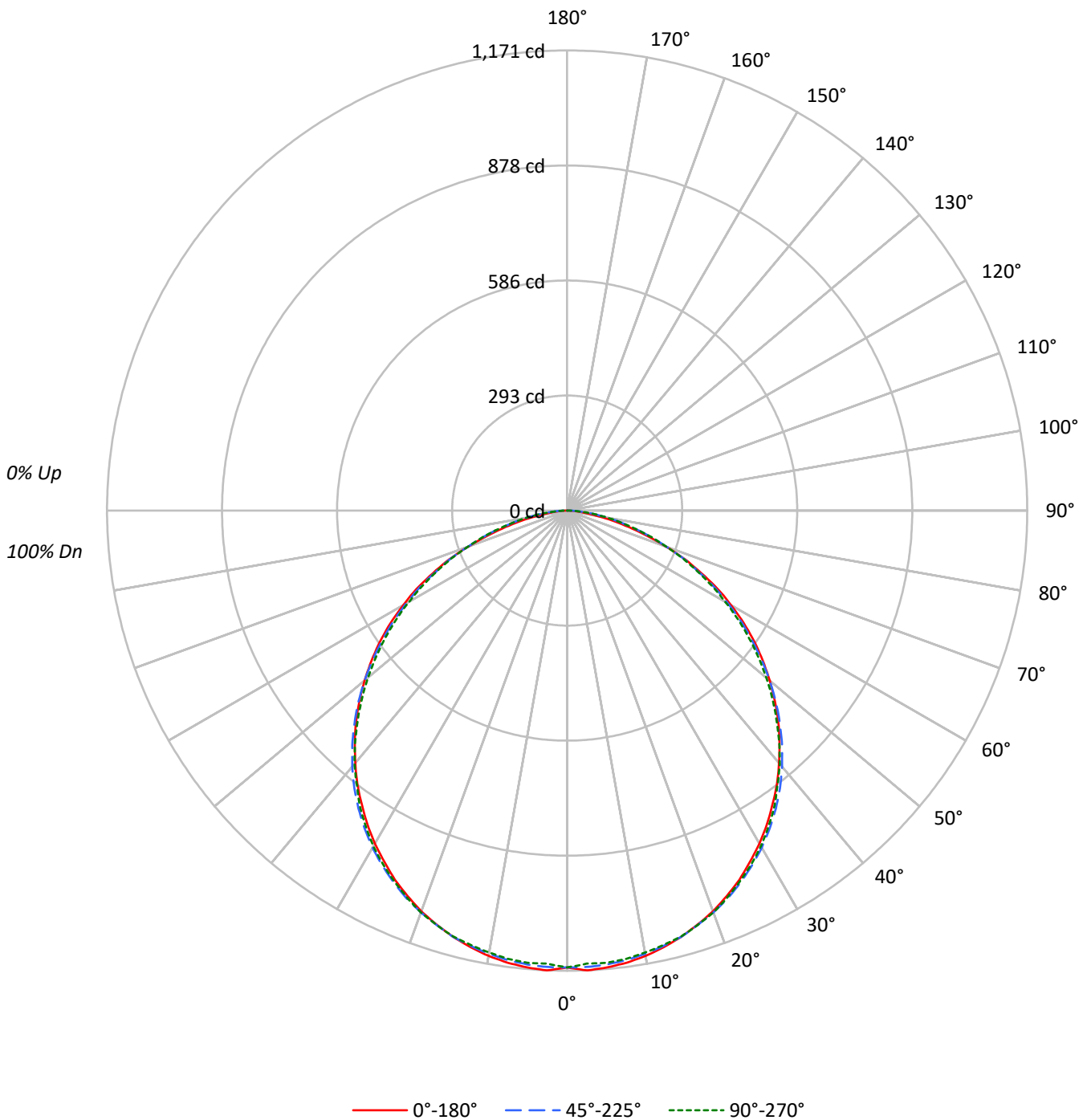
Input Watts (W): 37
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	11193	11193	11193
5°	11277	11205	11163
10°	11249	11197	11165
15°	11191	11191	11180
20°	11117	11150	11150
25°	11011	11092	11057
30°	10878	11010	10961
35°	10716	10881	10804
40°	10539	10687	10579
45°	10347	10421	10259
50°	10077	10077	9915
55°	9757	9631	9485
60°	9287	9100	8953
65°	8584	8410	8338
70°	7516	7575	7544
75°	6045	6688	6725
80°	4297	5672	5727
85°	2618	4761	4761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.5
10°-20°	315.9	10.0
20°-30°	478.4	15.1
30°-40°	573.6	18.1
40°-50°	584.8	18.4
50°-60°	510.5	16.1
60°-70°	365.5	11.5
70°-80°	187.7	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°	904.4	28.5
0°-40°	1478.0	46.6
0°-60°	2573.3	81.1
0°-90°	3173.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1167	1155	1159	1156	1155	111
15°	1123	1113	1123	1123	1122	317
25°	1037	1029	1044	1041	1041	477
35°	912	910	926	919	919	571
45°	760	758	765	756	754	585
55°	581	574	574	565	565	519
65°	377	368	369	366	366	373
75°	162	170	180	181	181	175
85°	24	37	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°	1162.6	1162.6	1162.6	1162.6	1162.6
2.5°	1171.2	1158.3	1162.6	1159.4	1154.0
5°	1166.9	1155.1	1159.4	1156.1	1155.1
7.5°	1160.4	1148.6	1154.0	1151.8	1150.7
10°	1150.7	1138.9	1145.4	1143.2	1142.1
12.5°	1137.8	1127.1	1134.6	1132.4	1132.4
15°	1122.8	1113.1	1122.8	1122.8	1121.7
17.5°	1104.5	1095.8	1105.5	1106.6	1105.5
20°	1085.1	1075.4	1088.3	1087.2	1088.3
22.5°	1061.4	1053.9	1067.9	1064.6	1065.7
25°	1036.6	1029.1	1044.2	1040.9	1040.9
27.5°	1007.6	1002.2	1018.3	1015.1	1015.1
30°	978.5	973.1	990.4	986.0	986.0
32.5°	946.2	943.0	959.1	953.8	953.8
35°	911.8	909.6	925.8	919.3	919.3
37.5°	877.3	875.2	890.2	882.7	879.5
40°	838.6	837.5	850.4	841.8	841.8
42.5°	799.8	798.7	809.5	798.7	798.7
45°	760.0	757.8	765.4	755.7	753.5
47.5°	716.9	714.8	720.2	709.4	708.3
50°	672.8	670.6	672.8	663.1	662.0
52.5°	627.6	623.3	623.3	613.6	613.6
55°	581.3	573.8	573.8	565.1	565.1
57.5°	532.9	523.2	524.2	516.7	515.6
60°	482.3	471.5	472.6	466.1	465.0
62.5°	432.7	419.8	423.1	415.5	415.5
65°	376.8	368.2	369.2	366.0	366.0
67.5°	325.1	316.5	321.9	318.6	318.6
70°	267.0	261.6	269.1	269.1	268.0
72.5°	213.1	214.2	223.9	223.9	225.0
75°	162.5	170.1	179.8	180.8	180.8
77.5°	116.3	129.2	139.9	139.9	139.9
80°	77.5	92.6	102.3	104.4	103.3
82.5°	46.3	62.4	70.0	72.1	71.0
85°	23.7	36.6	43.1	44.1	43.1
87.5°	8.6	18.3	21.5	21.5	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)