

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: P688655

Luminaire Tested: SQ4R-PC3-050D-93050-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688655
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-PC3-050D-93050-1-UNV-STD-W-4_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.9 lumens
Efficiency: N/A
Efficacy: 98.1 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

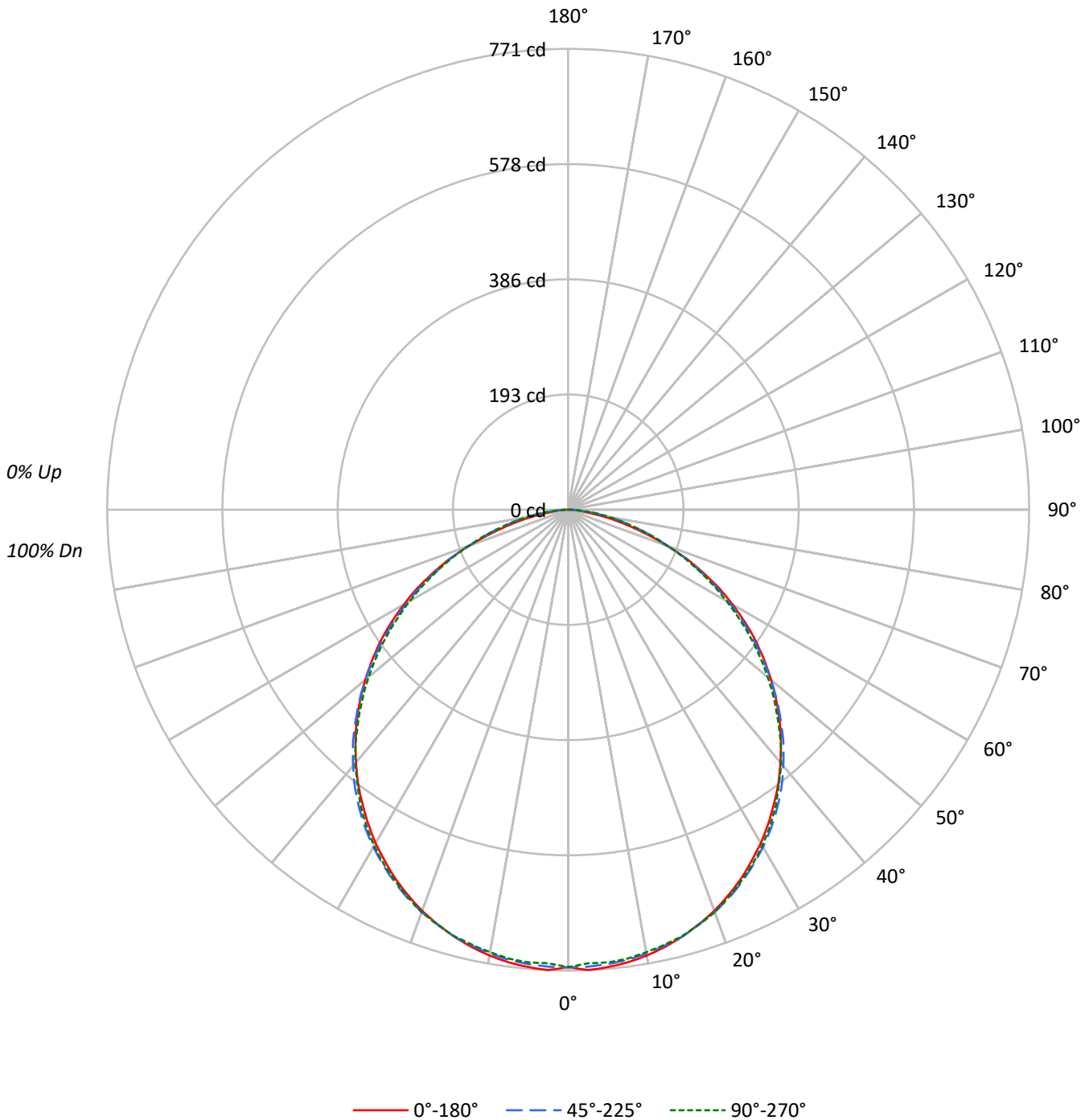
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7368	7368	7368
5°	7423	7375	7348
10°	7405	7370	7349
15°	7367	7367	7359
20°	7318	7340	7340
25°	7249	7301	7279
30°	7160	7247	7216
35°	7054	7162	7112
40°	6937	7035	6964
45°	6812	6859	6753
50°	6634	6634	6527
55°	6422	6340	6244
60°	6111	5990	5894
65°	5649	5536	5488
70°	4946	4985	4965
75°	3980	4400	4426
80°	2828	3731	3770
85°	1723	3126	3126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.5
10°-20°	207.9	10.0
20°-30°	314.9	15.1
30°-40°	377.6	18.1
40°-50°	385.0	18.4
50°-60°	336.0	16.1
60°-70°	240.6	11.5
70°-80°	123.6	5.9
80°-90°	30.9	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°	595.3	28.5
0°-40°	972.9	46.6
0°-60°	1693.9	81.1
0°-90°	2088.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	768	760	763	761	760	73
15°	739	733	739	739	738	208
25°	682	677	687	685	685	314
35°	600	599	609	605	605	376
45°	500	499	504	497	496	385
55°	383	378	378	372	372	341
65°	248	242	243	241	241	246
75°	107	112	118	119	119	115
85°	16	24	28	29	28	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.3	765.3	765.3	765.3	765.3
2.5°	770.9	762.4	765.3	763.1	759.6
5°	768.1	760.3	763.1	761.0	760.3
7.5°	763.9	756.1	759.6	758.2	757.5
10°	757.5	749.7	753.9	752.5	751.8
12.5°	749.0	741.9	746.9	745.4	745.4
15°	739.1	732.7	739.1	739.1	738.3
17.5°	727.0	721.3	727.7	728.4	727.7
20°	714.3	707.9	716.4	715.7	716.4
22.5°	698.7	693.7	702.9	700.8	701.5
25°	682.4	677.4	687.3	685.2	685.2
27.5°	663.2	659.7	670.3	668.2	668.2
30°	644.1	640.6	651.9	649.1	649.1
32.5°	622.8	620.7	631.4	627.8	627.8
35°	600.2	598.8	609.4	605.1	605.1
37.5°	577.5	576.1	586.0	581.0	578.9
40°	552.0	551.3	559.8	554.1	554.1
42.5°	526.5	525.8	532.9	525.8	525.8
45°	500.3	498.8	503.8	497.4	496.0
47.5°	471.9	470.5	474.0	467.0	466.3
50°	442.9	441.5	442.9	436.5	435.8
52.5°	413.1	410.3	410.3	403.9	403.9
55°	382.6	377.7	377.7	372.0	372.0
57.5°	350.8	344.4	345.1	340.1	339.4
60°	317.4	310.4	311.1	306.8	306.1
62.5°	284.9	276.3	278.5	273.5	273.5
65°	248.0	242.3	243.0	240.9	240.9
67.5°	214.0	208.3	211.9	209.7	209.7
70°	175.7	172.2	177.1	177.1	176.4
72.5°	140.3	141.0	147.4	147.4	148.1
75°	107.0	112.0	118.3	119.0	119.0
77.5°	76.5	85.0	92.1	92.1	92.1
80°	51.0	60.9	67.3	68.7	68.0
82.5°	30.5	41.1	46.1	47.5	46.8
85°	15.6	24.1	28.3	29.1	28.3
87.5°	5.7	12.0	14.2	14.2	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)