

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: P688653

Luminaire Tested: SQ4R-PC3-050D-93050-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688653
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_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2029.7 lumens
Efficiency: N/A
Efficacy: 95.3 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

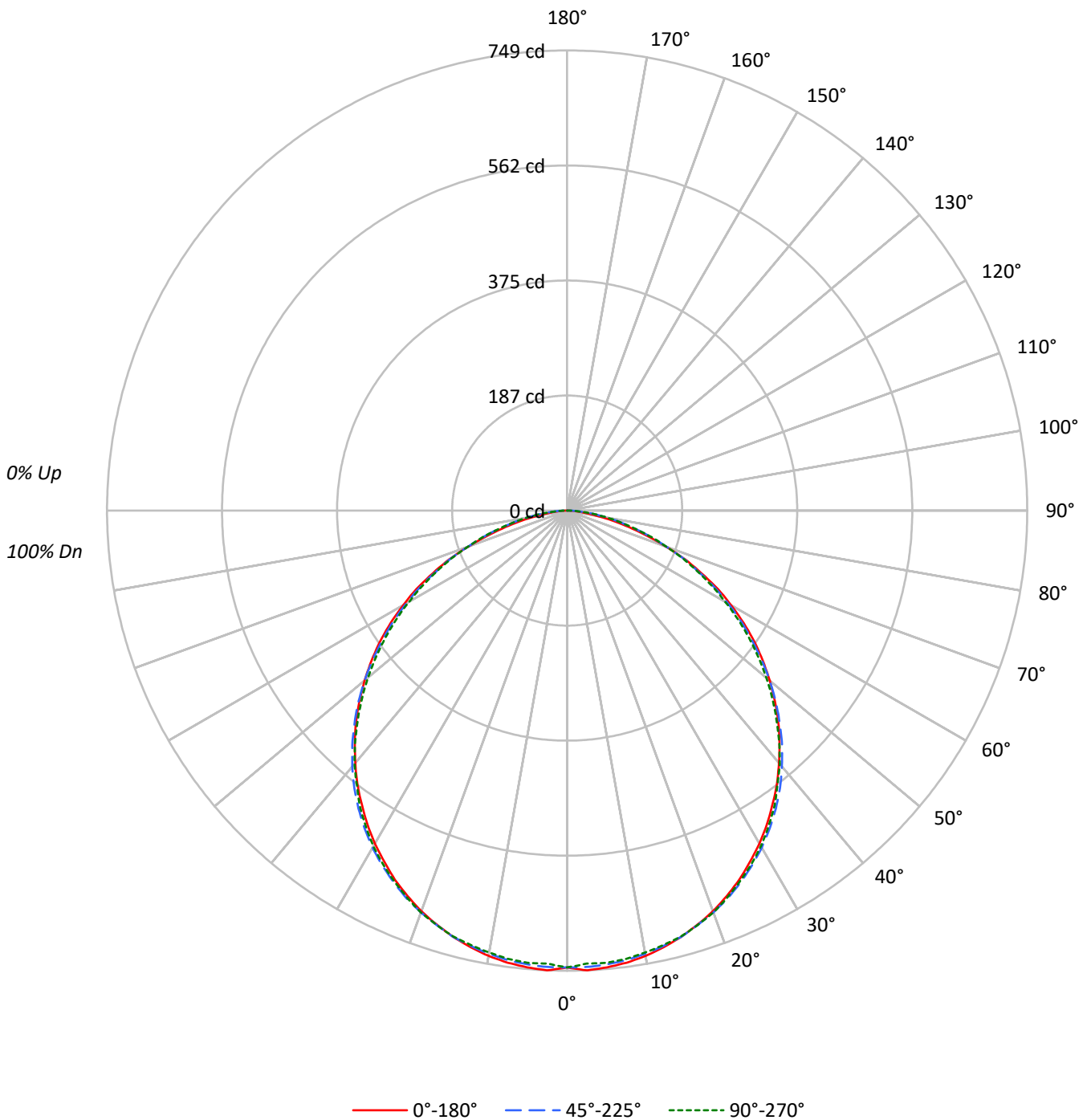
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7159	7159	7159
5°	7212	7166	7140
10°	7195	7162	7141
15°	7157	7157	7150
20°	7110	7132	7132
25°	7043	7094	7073
30°	6957	7041	7011
35°	6854	6959	6911
40°	6740	6836	6766
45°	6618	6665	6561
50°	6445	6445	6341
55°	6241	6160	6068
60°	5938	5819	5726
65°	5490	5381	5333
70°	4805	4844	4825
75°	3869	4278	4304
80°	2750	3626	3665
85°	1668	3038	3038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.5
10°-20°	202.1	10.0
20°-30°	306.0	15.1
30°-40°	366.9	18.1
40°-50°	374.1	18.4
50°-60°	326.5	16.1
60°-70°	233.8	11.5
70°-80°	120.1	5.9
80°-90°	30.0	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°	578.4	28.5
0°-40°	945.3	46.6
0°-60°	1645.9	81.1
0°-90°	2029.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2029.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	746	739	742	739	739	71
15°	718	712	718	718	717	203
25°	663	658	668	666	666	305
35°	583	582	592	588	588	365
45°	486	485	490	483	482	374
55°	372	367	367	362	362	332
65°	241	236	236	234	234	239
75°	104	109	115	116	116	112
85°	15	23	28	28	28	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.6	743.6	743.6	743.6	743.6
2.5°	749.1	740.8	743.6	741.5	738.1
5°	746.3	738.8	741.5	739.4	738.8
7.5°	742.2	734.6	738.1	736.7	736.0
10°	736.0	728.4	732.6	731.2	730.5
12.5°	727.7	720.9	725.7	724.3	724.3
15°	718.1	711.9	718.1	718.1	717.4
17.5°	706.4	700.9	707.1	707.8	707.1
20°	694.0	687.8	696.1	695.4	696.1
22.5°	678.9	674.0	683.0	680.9	681.6
25°	663.0	658.2	667.8	665.8	665.8
27.5°	644.4	641.0	651.3	649.3	649.3
30°	625.8	622.4	633.4	630.7	630.7
32.5°	605.2	603.1	613.4	610.0	610.0
35°	583.2	581.8	592.1	588.0	588.0
37.5°	561.1	559.7	569.4	564.6	562.5
40°	536.3	535.6	543.9	538.4	538.4
42.5°	511.6	510.9	517.7	510.9	510.9
45°	486.1	484.7	489.5	483.3	481.9
47.5°	458.5	457.2	460.6	453.7	453.0
50°	430.3	428.9	430.3	424.1	423.4
52.5°	401.4	398.6	398.6	392.4	392.4
55°	371.8	367.0	367.0	361.5	361.5
57.5°	340.8	334.6	335.3	330.5	329.8
60°	308.4	301.6	302.2	298.1	297.4
62.5°	276.8	268.5	270.6	265.8	265.8
65°	241.0	235.5	236.2	234.1	234.1
67.5°	207.9	202.4	205.9	203.8	203.8
70°	170.7	167.3	172.1	172.1	171.4
72.5°	136.3	137.0	143.2	143.2	143.9
75°	104.0	108.8	115.0	115.7	115.7
77.5°	74.4	82.6	89.5	89.5	89.5
80°	49.6	59.2	65.4	66.8	66.1
82.5°	29.6	39.9	44.8	46.1	45.4
85°	15.1	23.4	27.5	28.2	27.5
87.5°	5.5	11.7	13.8	13.8	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)