

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: P688648

Luminaire Tested: SQ4R-PC3-050D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688648
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-92765-1-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: 2022.8 lumens
Efficiency: N/A
Efficacy: 95.4 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

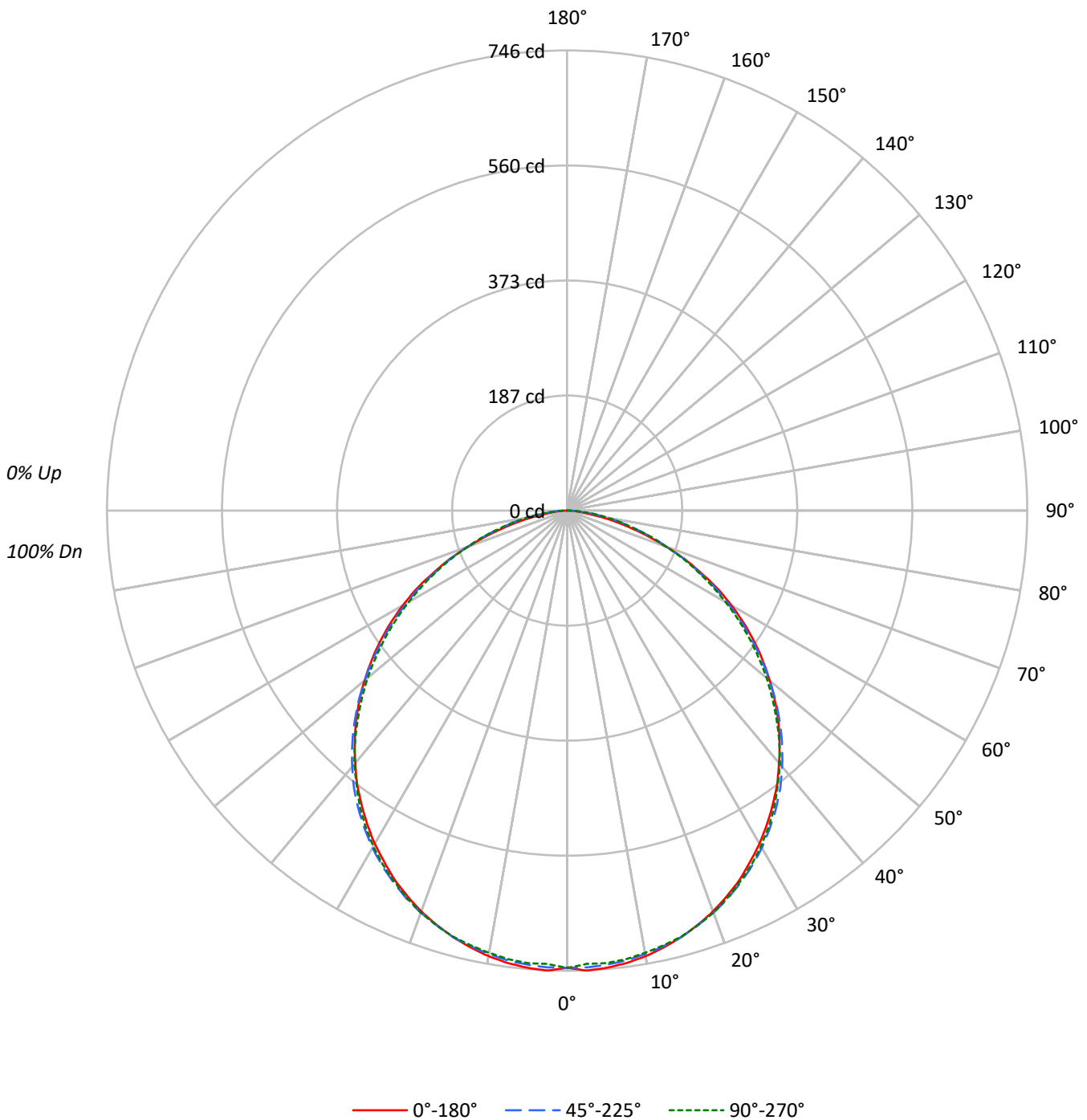
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7135	7135	7135
5°	7188	7142	7115
10°	7171	7137	7117
15°	7133	7133	7126
20°	7086	7107	7107
25°	7019	7070	7048
30°	6933	7018	6987
35°	6831	6935	6887
40°	6717	6813	6744
45°	6595	6643	6539
50°	6422	6422	6320
55°	6219	6138	6046
60°	5919	5800	5707
65°	5472	5362	5315
70°	4791	4827	4811
75°	3854	4263	4289
80°	2739	3615	3654
85°	1668	3027	3027

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.5
10°-20°	201.4	10.0
20°-30°	304.9	15.1
30°-40°	365.6	18.1
40°-50°	372.8	18.4
50°-60°	325.4	16.1
60°-70°	233.0	11.5
70°-80°	119.7	5.9
80°-90°	29.9	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°	576.5	28.5
0°-40°	942.1	46.6
0°-60°	1640.3	81.1
0°-90°	2022.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	744	736	739	737	736	71
15°	716	710	716	716	715	202
25°	661	656	666	664	664	304
35°	581	580	590	586	586	364
45°	484	483	488	482	480	373
55°	370	366	366	360	360	331
65°	240	235	235	233	233	238
75°	104	108	115	115	115	112
85°	15	23	27	28	27	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.1	741.1	741.1	741.1	741.1
2.5°	746.5	738.3	741.1	739.0	735.6
5°	743.8	736.2	739.0	736.9	736.2
7.5°	739.7	732.1	735.6	734.2	733.5
10°	733.5	726.0	730.1	728.7	728.0
12.5°	725.3	718.4	723.2	721.8	721.8
15°	715.7	709.5	715.7	715.7	715.0
17.5°	704.0	698.5	704.7	705.4	704.7
20°	691.6	685.5	693.7	693.0	693.7
22.5°	676.6	671.7	680.7	678.6	679.3
25°	660.8	656.0	665.6	663.5	663.5
27.5°	642.2	638.8	649.1	647.0	647.0
30°	623.7	620.3	631.3	628.5	628.5
32.5°	603.1	601.1	611.4	607.9	607.9
35°	581.2	579.8	590.1	586.0	586.0
37.5°	559.2	557.8	567.5	562.7	560.6
40°	534.5	533.8	542.1	536.6	536.6
42.5°	509.8	509.1	516.0	509.1	509.1
45°	484.4	483.1	487.9	481.7	480.3
47.5°	457.0	455.6	459.0	452.2	451.5
50°	428.8	427.5	428.8	422.7	422.0
52.5°	400.0	397.3	397.3	391.1	391.1
55°	370.5	365.7	365.7	360.2	360.2
57.5°	339.6	333.5	334.2	329.4	328.7
60°	307.4	300.5	301.2	297.1	296.4
62.5°	275.8	267.6	269.7	264.9	264.9
65°	240.2	234.7	235.4	233.3	233.3
67.5°	207.2	201.7	205.2	203.1	203.1
70°	170.2	166.7	171.5	171.5	170.9
72.5°	135.9	136.5	142.7	142.7	143.4
75°	103.6	108.4	114.6	115.3	115.3
77.5°	74.1	82.3	89.2	89.2	89.2
80°	49.4	59.0	65.2	66.6	65.9
82.5°	29.5	39.8	44.6	46.0	45.3
85°	15.1	23.3	27.4	28.1	27.4
87.5°	5.5	11.7	13.7	13.7	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)