

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: P688473

Luminaire Tested: SQ4R-PC3-075D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688473
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-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2396.1 lumens
Efficiency: N/A
Efficacy: 89.4 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

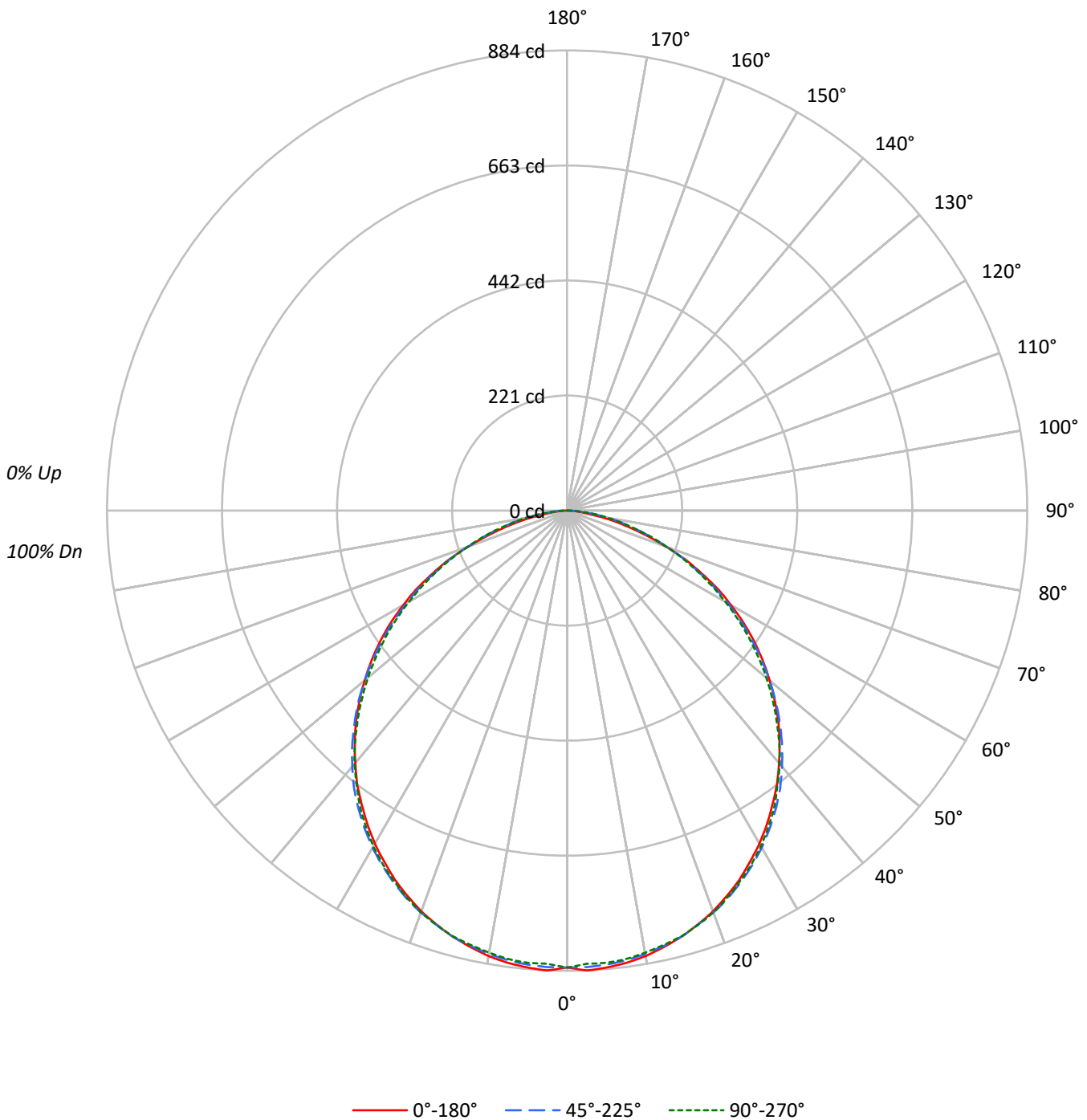
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	8451	8451	8451
5°	8515	8460	8428
10°	8494	8454	8431
15°	8449	8449	8441
20°	8394	8418	8418
25°	8314	8375	8349
30°	8213	8313	8276
35°	8091	8215	8158
40°	7958	8070	7988
45°	7812	7868	7746
50°	7609	7609	7487
55°	7367	7271	7162
60°	7011	6870	6760
65°	6481	6351	6294
70°	5675	5720	5697
75°	4564	5048	5077
80°	3243	4280	4324
85°	1977	3590	3590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7868 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.5
10°-20°	238.5	10.0
20°-30°	361.2	15.1
30°-40°	433.1	18.1
40°-50°	441.6	18.4
50°-60°	385.4	16.1
60°-70°	275.9	11.5
70°-80°	141.7	5.9
80°-90°	35.5	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°	682.9	28.5
0°-40°	1116.0	46.6
0°-60°	1943.0	81.1
0°-90°	2396.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	881	872	875	873	872	84
15°	848	840	848	848	847	239
25°	783	777	788	786	786	360
35°	688	687	699	694	694	431
45°	574	572	578	571	569	442
55°	439	433	433	427	427	392
65°	284	278	279	276	276	282
75°	123	128	136	136	136	132
85°	18	28	32	33	32	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.8	877.8	877.8	877.8	877.8
2.5°	884.3	874.6	877.8	875.4	871.3
5°	881.1	872.1	875.4	872.9	872.1
7.5°	876.2	867.2	871.3	869.7	868.9
10°	868.9	859.9	864.8	863.2	862.4
12.5°	859.1	851.0	856.7	855.0	855.0
15°	847.7	840.4	847.7	847.7	846.9
17.5°	833.9	827.4	834.7	835.5	834.7
20°	819.3	812.0	821.7	820.9	821.7
22.5°	801.4	795.7	806.3	803.8	804.7
25°	782.7	777.0	788.4	786.0	786.0
27.5°	760.8	756.7	768.9	766.5	766.5
30°	738.8	734.8	747.8	744.5	744.5
32.5°	714.4	712.0	724.2	720.1	720.1
35°	688.4	686.8	699.0	694.1	694.1
37.5°	662.4	660.8	672.2	666.5	664.0
40°	633.2	632.3	642.1	635.6	635.6
42.5°	603.9	603.1	611.2	603.1	603.1
45°	573.8	572.2	577.9	570.6	568.9
47.5°	541.3	539.7	543.8	535.6	534.8
50°	508.0	506.4	508.0	500.7	499.9
52.5°	473.9	470.6	470.6	463.3	463.3
55°	438.9	433.2	433.2	426.7	426.7
57.5°	402.3	395.0	395.8	390.1	389.3
60°	364.1	356.0	356.8	351.9	351.1
62.5°	326.7	317.0	319.4	313.7	313.7
65°	284.5	278.0	278.8	276.3	276.3
67.5°	245.5	239.0	243.0	240.6	240.6
70°	201.6	197.5	203.2	203.2	202.4
72.5°	160.9	161.7	169.1	169.1	169.9
75°	122.7	128.4	135.7	136.5	136.5
77.5°	87.8	97.5	105.7	105.7	105.7
80°	58.5	69.9	77.2	78.8	78.0
82.5°	34.9	47.1	52.8	54.5	53.6
85°	17.9	27.6	32.5	33.3	32.5
87.5°	6.5	13.8	16.3	16.3	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)