

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: P688657

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688657
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-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2712.8 lumens
Efficiency: N/A
Efficacy: 83.2 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

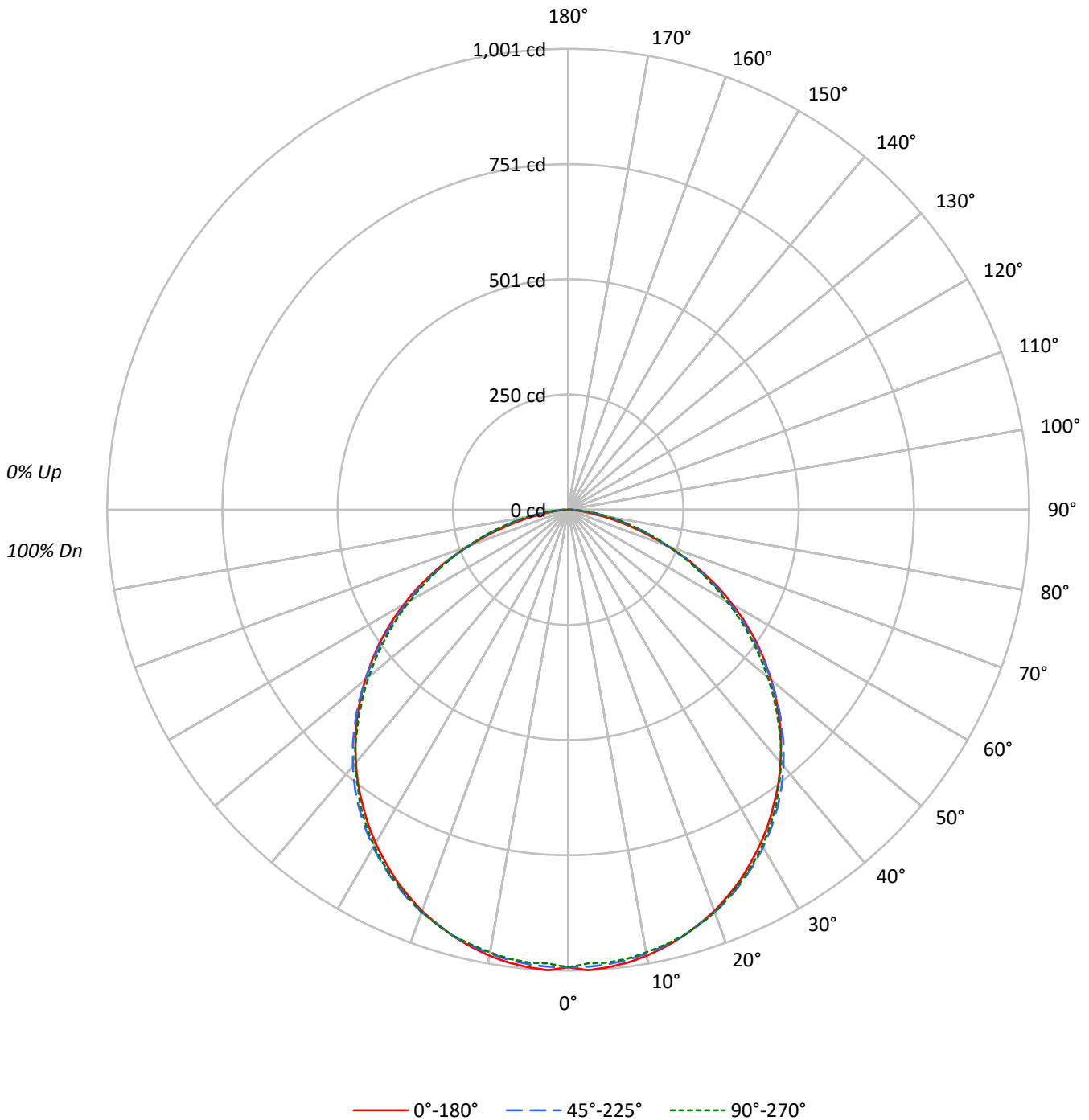
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	9568	9568	9568
5°	9640	9578	9542
10°	9617	9572	9545
15°	9566	9566	9557
20°	9503	9531	9531
25°	9414	9482	9453
30°	9299	9411	9370
35°	9160	9301	9237
40°	9010	9137	9044
45°	8846	8908	8771
50°	8614	8614	8476
55°	8340	8233	8109
60°	7939	7779	7654
65°	7338	7189	7128
70°	6423	6477	6449
75°	5170	5717	5751
80°	3676	4846	4895
85°	2231	4065	4065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8908 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	3.5
10°-20°	270.1	10.0
20°-30°	409.0	15.1
30°-40°	490.4	18.1
40°-50°	499.9	18.4
50°-60°	436.4	16.1
60°-70°	312.4	11.5
70°-80°	160.5	5.9
80°-90°	40.1	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°	773.1	28.5
0°-40°	1263.5	46.6
0°-60°	2199.8	81.1
0°-90°	2712.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2712.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	998	987	991	988	987	95
15°	960	952	960	960	959	271
25°	886	880	893	890	890	408
35°	779	778	791	786	786	488
45°	650	648	654	646	644	500
55°	497	490	490	483	483	443
65°	322	315	316	313	313	319
75°	139	145	154	155	155	150
85°	20	31	37	38	37	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.8	993.8	993.8	993.8	993.8
2.5°	1001.2	990.2	993.8	991.1	986.5
5°	997.5	987.4	991.1	988.3	987.4
7.5°	992.0	981.9	986.5	984.6	983.7
10°	983.7	973.6	979.1	977.3	976.4
12.5°	972.7	963.5	969.9	968.1	968.1
15°	959.8	951.5	959.8	959.8	958.9
17.5°	944.1	936.8	945.1	946.0	945.1
20°	927.6	919.3	930.3	929.4	930.3
22.5°	907.3	900.9	912.9	910.1	911.0
25°	886.2	879.7	892.6	889.9	889.9
27.5°	861.3	856.7	870.5	867.8	867.8
30°	836.5	831.9	846.6	842.9	842.9
32.5°	808.9	806.1	819.9	815.3	815.3
35°	779.4	777.6	791.4	785.9	785.9
37.5°	750.0	748.1	761.0	754.6	751.8
40°	716.9	715.9	727.0	719.6	719.6
42.5°	683.7	682.8	692.0	682.8	682.8
45°	649.7	647.8	654.3	646.0	644.2
47.5°	612.9	611.0	615.6	606.4	605.5
50°	575.1	573.3	575.1	566.9	565.9
52.5°	536.5	532.8	532.8	524.5	524.5
55°	496.9	490.5	490.5	483.1	483.1
57.5°	455.5	447.2	448.1	441.7	440.8
60°	412.3	403.1	404.0	398.5	397.5
62.5°	369.9	358.9	361.6	355.2	355.2
65°	322.1	314.7	315.6	312.9	312.9
67.5°	277.9	270.5	275.1	272.4	272.4
70°	228.2	223.6	230.1	230.1	229.1
72.5°	182.2	183.1	191.4	191.4	192.3
75°	139.0	145.4	153.7	154.6	154.6
77.5°	99.4	110.4	119.6	119.6	119.6
80°	66.3	79.1	87.4	89.3	88.3
82.5°	39.6	53.4	59.8	61.7	60.7
85°	20.2	31.3	36.8	37.7	36.8
87.5°	7.4	15.6	18.4	18.4	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)