

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: P688672

Luminaire Tested: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688672
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-PC3-100D-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3827.1 lumens
Efficiency: N/A
Efficacy: 82.8 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

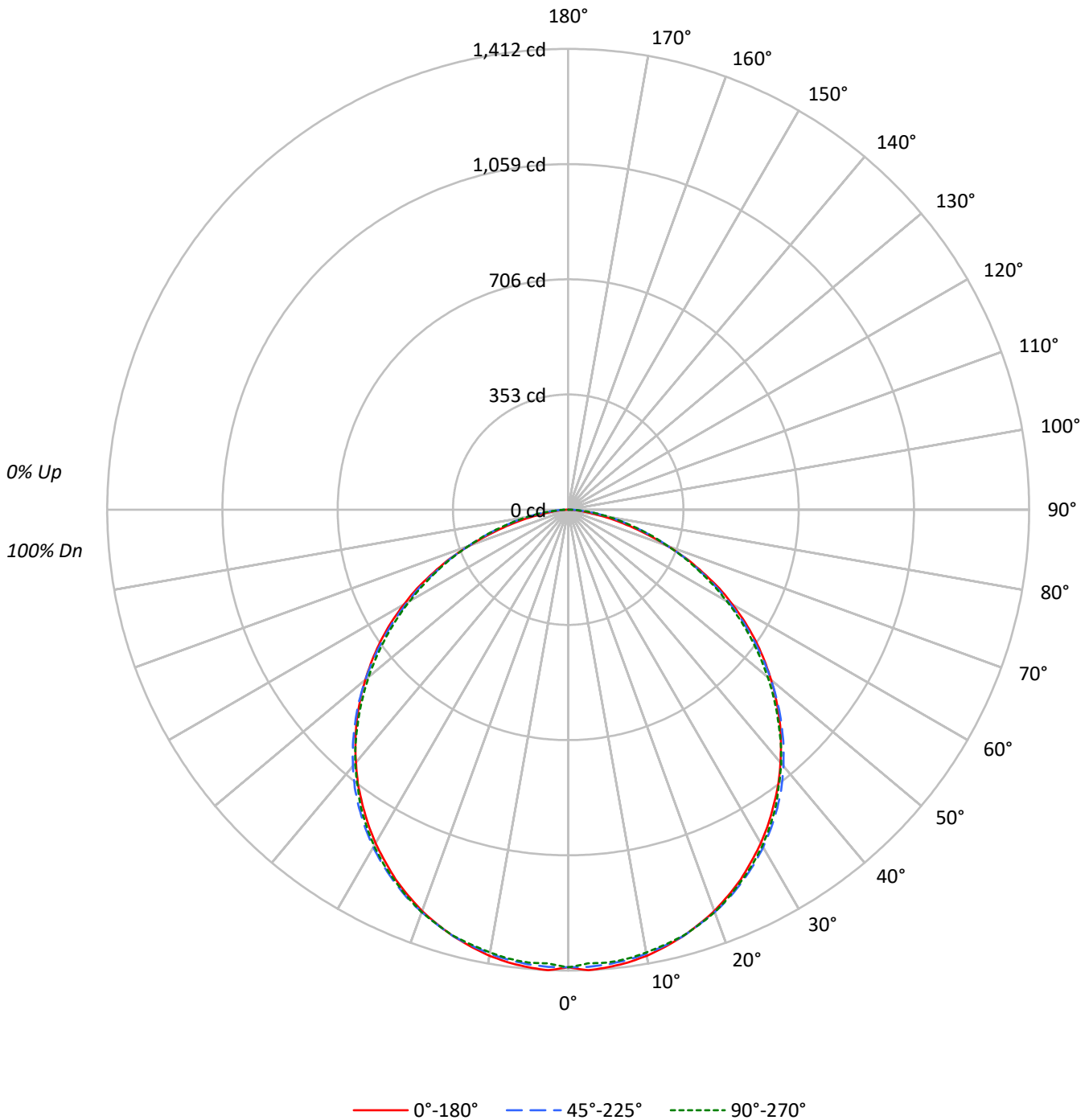
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13498	13498	13498
5°	13599	13511	13461
10°	13567	13503	13465
15°	13495	13495	13482
20°	13407	13447	13447
25°	13279	13376	13335
30°	13118	13277	13219
35°	12923	13121	13029
40°	12710	12889	12759
45°	12478	12567	12372
50°	12153	12153	11958
55°	11766	11613	11439
60°	11199	10973	10798
65°	10351	10144	10055
70°	9061	9134	9098
75°	7291	8064	8113
80°	5184	6836	6908
85°	3159	5733	5733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12567 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.5
10°-20°	381.0	10.0
20°-30°	576.9	15.1
30°-40°	691.8	18.1
40°-50°	705.3	18.4
50°-60°	615.6	16.1
60°-70°	440.8	11.5
70°-80°	226.4	5.9
80°-90°	56.6	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°	1090.7	28.5
0°-40°	1782.4	46.6
0°-60°	3103.3	81.1
0°-90°	3827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1407	1393	1398	1394	1393	134
15°	1354	1342	1354	1354	1353	382
25°	1250	1241	1259	1255	1255	576
35°	1100	1097	1116	1109	1109	688
45°	916	914	923	911	909	706
55°	701	692	692	682	682	625
65°	454	444	445	441	441	450
75°	196	205	217	218	218	211
85°	29	44	52	53	52	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.0	1402.0	1402.0	1402.0	1402.0
2.5°	1412.4	1396.8	1402.0	1398.1	1391.6
5°	1407.2	1392.9	1398.1	1394.2	1392.9
7.5°	1399.4	1385.2	1391.6	1389.1	1387.8
10°	1387.8	1373.5	1381.3	1378.7	1377.4
12.5°	1372.2	1359.2	1368.3	1365.7	1365.7
15°	1354.0	1342.3	1354.0	1354.0	1352.7
17.5°	1331.9	1321.5	1333.2	1334.5	1333.2
20°	1308.6	1296.9	1312.5	1311.2	1312.5
22.5°	1280.0	1270.9	1287.8	1283.9	1285.2
25°	1250.1	1241.1	1259.2	1255.3	1255.3
27.5°	1215.1	1208.6	1228.1	1224.2	1224.2
30°	1180.0	1173.6	1194.3	1189.1	1189.1
32.5°	1141.1	1137.2	1156.7	1150.2	1150.2
35°	1099.6	1097.0	1116.4	1108.6	1108.6
37.5°	1058.0	1055.4	1073.6	1064.5	1060.6
40°	1011.3	1010.0	1025.6	1015.2	1015.2
42.5°	964.5	963.2	976.2	963.2	963.2
45°	916.5	913.9	923.0	911.3	908.7
47.5°	864.6	862.0	868.5	855.5	854.2
50°	811.4	808.8	811.4	799.7	798.4
52.5°	756.8	751.6	751.6	740.0	740.0
55°	701.0	691.9	691.9	681.5	681.5
57.5°	642.6	630.9	632.2	623.1	621.8
60°	581.6	568.6	569.9	562.1	560.8
62.5°	521.9	506.3	510.2	501.1	501.1
65°	454.4	444.0	445.3	441.4	441.4
67.5°	392.1	381.7	388.2	384.3	384.3
70°	321.9	315.5	324.5	324.5	323.2
72.5°	257.0	258.3	270.0	270.0	271.3
75°	196.0	205.1	216.8	218.1	218.1
77.5°	140.2	155.8	168.8	168.8	168.8
80°	93.5	111.6	123.3	125.9	124.6
82.5°	55.8	75.3	84.4	87.0	85.7
85°	28.6	44.1	51.9	53.2	51.9
87.5°	10.4	22.1	26.0	26.0	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)