

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: P688675

Luminaire Tested: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688675
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_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4105.6 lumens
Efficiency: N/A
Efficacy: 88.5 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

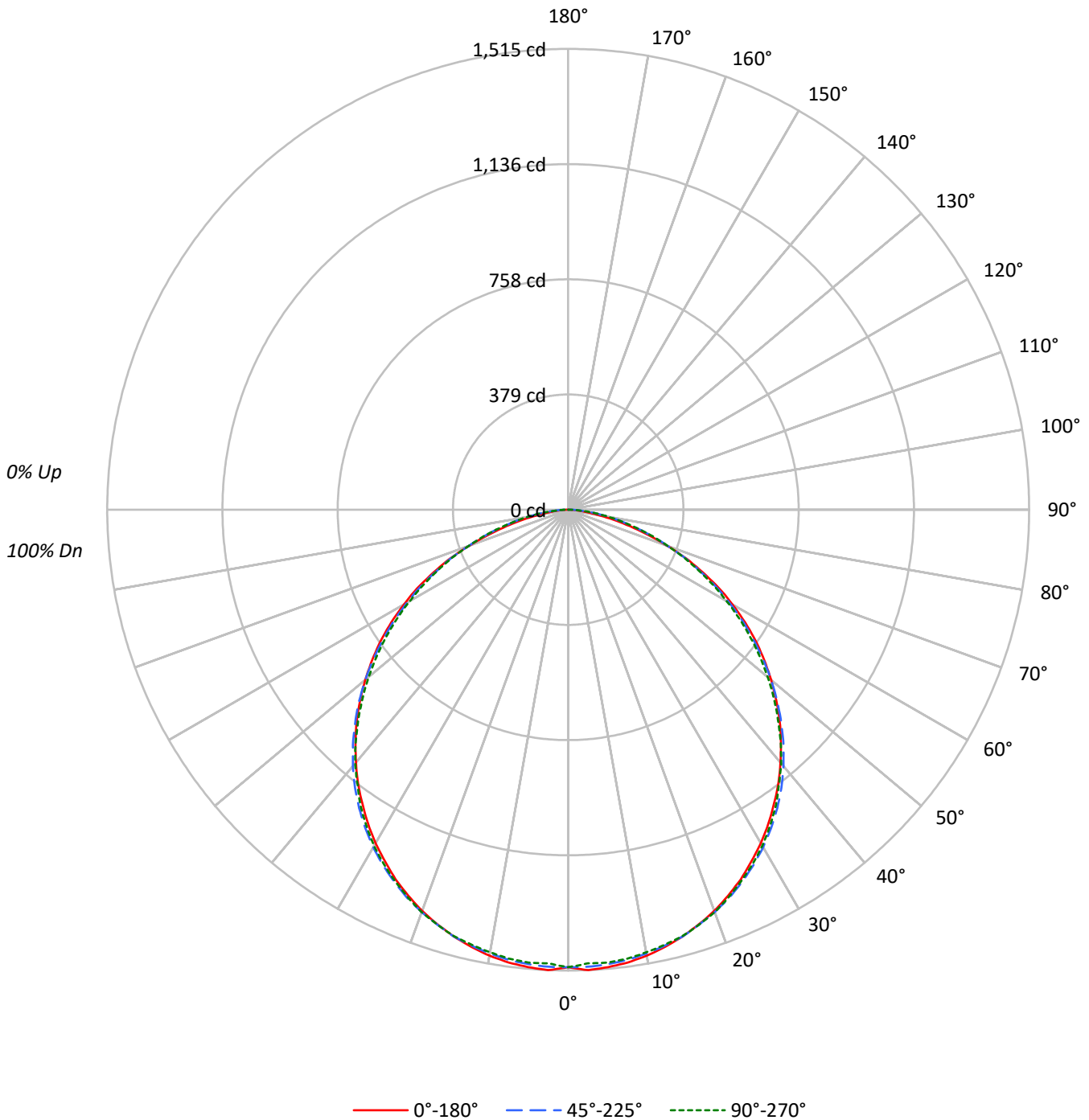
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	14480	14480	14480
5°	14589	14495	14441
10°	14554	14486	14445
15°	14477	14477	14464
20°	14382	14425	14425
25°	14246	14350	14305
30°	14073	14243	14182
35°	13864	14076	13978
40°	13635	13827	13687
45°	13386	13482	13273
50°	13036	13036	12828
55°	12622	12459	12271
60°	12013	11772	11584
65°	11103	10882	10786
70°	9722	9801	9762
75°	7823	8652	8704
80°	5561	7335	7413
85°	3380	6153	6153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13482 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.5
10°-20°	408.7	10.0
20°-30°	618.9	15.1
30°-40°	742.1	18.1
40°-50°	756.6	18.4
50°-60°	660.4	16.1
60°-70°	472.8	11.5
70°-80°	242.9	5.9
80°-90°	60.8	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°	1170.0	28.5
0°-40°	1912.1	46.6
0°-60°	3329.2	81.1
0°-90°	4105.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1510	1494	1500	1496	1494	143
15°	1452	1440	1452	1452	1451	410
25°	1341	1331	1351	1347	1347	618
35°	1180	1177	1198	1189	1189	738
45°	983	980	990	978	975	757
55°	752	742	742	731	731	671
65°	487	476	478	474	474	483
75°	210	220	233	234	234	226
85°	31	47	56	57	56	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.1	1504.1	1504.1	1504.1	1504.1
2.5°	1515.2	1498.5	1504.1	1499.9	1492.9
5°	1509.6	1494.3	1499.9	1495.7	1494.3
7.5°	1501.3	1486.0	1492.9	1490.1	1488.8
10°	1488.8	1473.4	1481.8	1479.0	1477.6
12.5°	1472.0	1458.1	1467.9	1465.1	1465.1
15°	1452.5	1440.0	1452.5	1452.5	1451.2
17.5°	1428.9	1417.7	1430.3	1431.7	1430.3
20°	1403.8	1391.3	1408.0	1406.6	1408.0
22.5°	1373.2	1363.4	1381.5	1377.3	1378.7
25°	1341.1	1331.4	1350.9	1346.7	1346.7
27.5°	1303.5	1296.6	1317.5	1313.3	1313.3
30°	1265.9	1259.0	1281.2	1275.7	1275.7
32.5°	1224.1	1220.0	1240.9	1233.9	1233.9
35°	1179.6	1176.8	1197.7	1189.3	1189.3
37.5°	1135.0	1132.2	1151.7	1142.0	1137.8
40°	1084.9	1083.5	1100.2	1089.1	1089.1
42.5°	1034.7	1033.4	1047.3	1033.4	1033.4
45°	983.2	980.4	990.2	977.6	974.9
47.5°	927.5	924.7	931.7	917.8	916.4
50°	870.4	867.6	870.4	857.9	856.5
52.5°	811.9	806.4	806.4	793.8	793.8
55°	752.0	742.3	742.3	731.1	731.1
57.5°	689.4	676.8	678.2	668.5	667.1
60°	623.9	610.0	611.4	603.0	601.6
62.5°	559.8	543.1	547.3	537.6	537.6
65°	487.4	476.3	477.7	473.5	473.5
67.5°	420.6	409.4	416.4	412.2	412.2
70°	345.4	338.4	348.2	348.2	346.8
72.5°	275.7	277.1	289.7	289.7	291.1
75°	210.3	220.0	232.6	234.0	234.0
77.5°	150.4	167.1	181.0	181.0	181.0
80°	100.3	119.8	132.3	135.1	133.7
82.5°	59.9	80.8	90.5	93.3	91.9
85°	30.6	47.4	55.7	57.1	55.7
87.5°	11.1	23.7	27.9	27.9	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)