

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: P688486

Luminaire Tested: SQ4R-PC3-125D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688486
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-PC3-125D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4240.6 lumens
Efficiency: N/A
Efficacy: 85.7 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

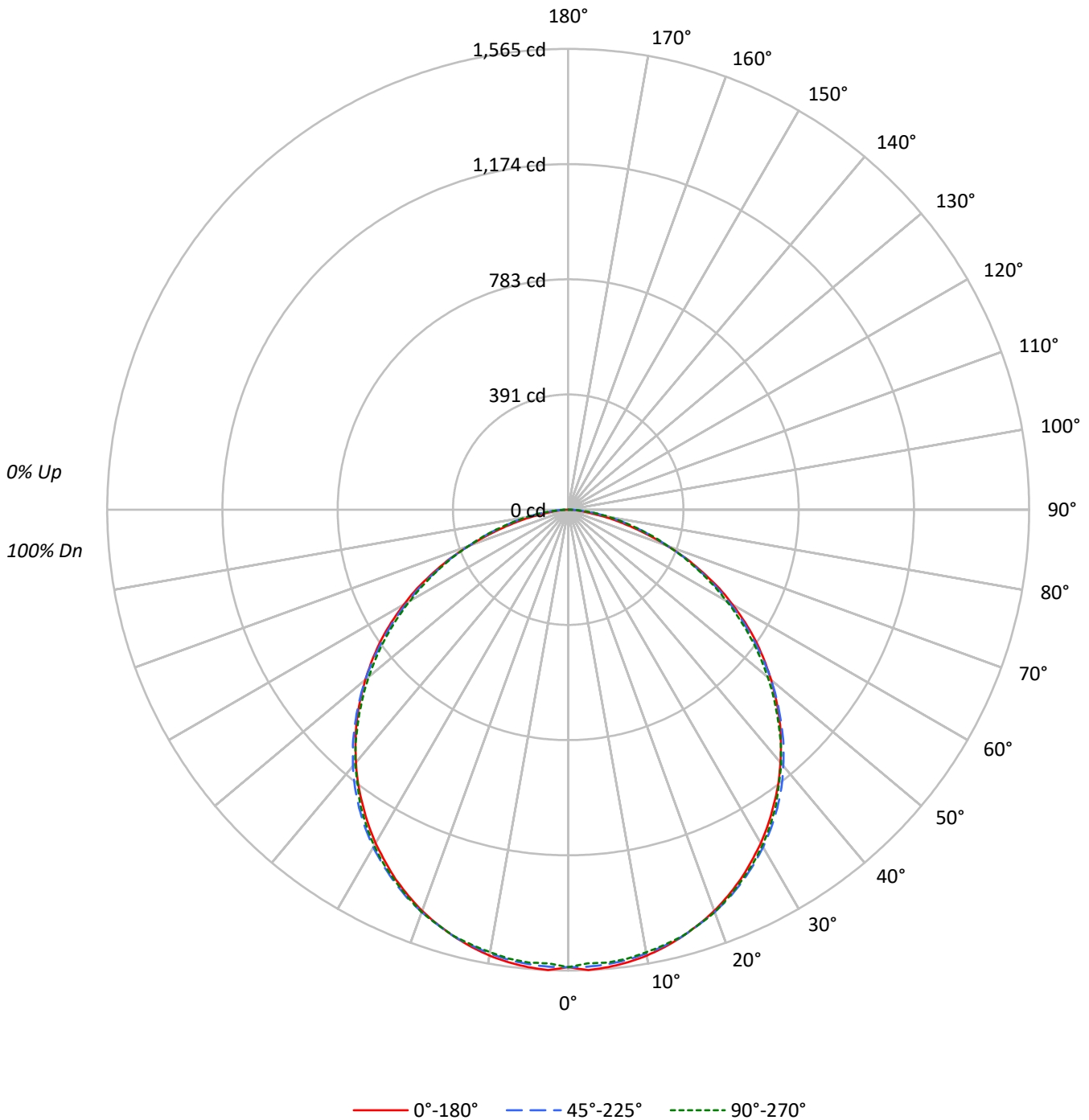
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	14956	14956	14956
5°	15069	14972	14917
10°	15032	14962	14920
15°	14953	14953	14939
20°	14856	14900	14900
25°	14714	14822	14776
30°	14536	14712	14647
35°	14320	14539	14437
40°	14083	14282	14137
45°	13828	13924	13709
50°	13465	13465	13251
55°	13038	12869	12676
60°	12408	12159	11965
65°	11470	11240	11142
70°	10041	10122	10083
75°	8079	8935	8991
80°	5744	7579	7656
85°	3491	6352	6352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.5
10°-20°	422.1	10.0
20°-30°	639.3	15.1
30°-40°	766.5	18.1
40°-50°	781.5	18.4
50°-60°	682.1	16.1
60°-70°	488.4	11.5
70°-80°	250.9	5.9
80°-90°	62.8	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°	1208.5	28.5
0°-40°	1975.0	46.6
0°-60°	3438.7	81.1
0°-90°	4240.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1559	1544	1549	1545	1544	148
15°	1500	1487	1500	1500	1499	423
25°	1385	1375	1395	1391	1391	638
35°	1218	1216	1237	1228	1228	762
45°	1016	1013	1023	1010	1007	782
55°	777	767	767	755	755	693
65°	504	492	493	489	489	499
75°	217	227	240	242	242	234
85°	32	49	58	59	58	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.5	1553.5	1553.5	1553.5	1553.5
2.5°	1565.1	1547.8	1553.5	1549.2	1542.0
5°	1559.3	1543.5	1549.2	1544.9	1543.5
7.5°	1550.7	1534.8	1542.0	1539.2	1537.7
10°	1537.7	1521.9	1530.5	1527.7	1526.2
12.5°	1520.5	1506.1	1516.1	1513.3	1513.3
15°	1500.3	1487.4	1500.3	1500.3	1498.9
17.5°	1475.9	1464.4	1477.3	1478.7	1477.3
20°	1450.0	1437.0	1454.3	1452.8	1454.3
22.5°	1418.3	1408.3	1427.0	1422.6	1424.1
25°	1385.2	1375.2	1395.3	1391.0	1391.0
27.5°	1346.4	1339.2	1360.8	1356.5	1356.5
30°	1307.6	1300.4	1323.4	1317.6	1317.6
32.5°	1264.4	1260.1	1281.7	1274.5	1274.5
35°	1218.4	1215.5	1237.1	1228.4	1228.4
37.5°	1172.3	1169.5	1189.6	1179.5	1175.2
40°	1120.6	1119.1	1136.4	1124.9	1124.9
42.5°	1068.8	1067.3	1081.7	1067.3	1067.3
45°	1015.6	1012.7	1022.7	1009.8	1006.9
47.5°	958.0	955.1	962.3	947.9	946.5
50°	899.0	896.2	899.0	886.1	884.7
52.5°	838.6	832.9	832.9	819.9	819.9
55°	776.8	766.7	766.7	755.2	755.2
57.5°	712.0	699.1	700.5	690.5	689.0
60°	644.4	630.0	631.5	622.9	621.4
62.5°	578.3	561.0	565.3	555.2	555.2
65°	503.5	492.0	493.4	489.1	489.1
67.5°	434.4	422.9	430.1	425.8	425.8
70°	356.7	349.5	359.6	359.6	358.2
72.5°	284.8	286.3	299.2	299.2	300.6
75°	217.2	227.3	240.2	241.7	241.7
77.5°	155.4	172.6	187.0	187.0	187.0
80°	103.6	123.7	136.7	139.5	138.1
82.5°	61.9	83.4	93.5	96.4	94.9
85°	31.6	48.9	57.5	59.0	57.5
87.5°	11.5	24.5	28.8	28.8	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)