

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: P688685

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688685
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-92765-1-UNV-STD-W-4_3500K
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: 4786.0 lumens
Efficiency: N/A
Efficacy: 78.2 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

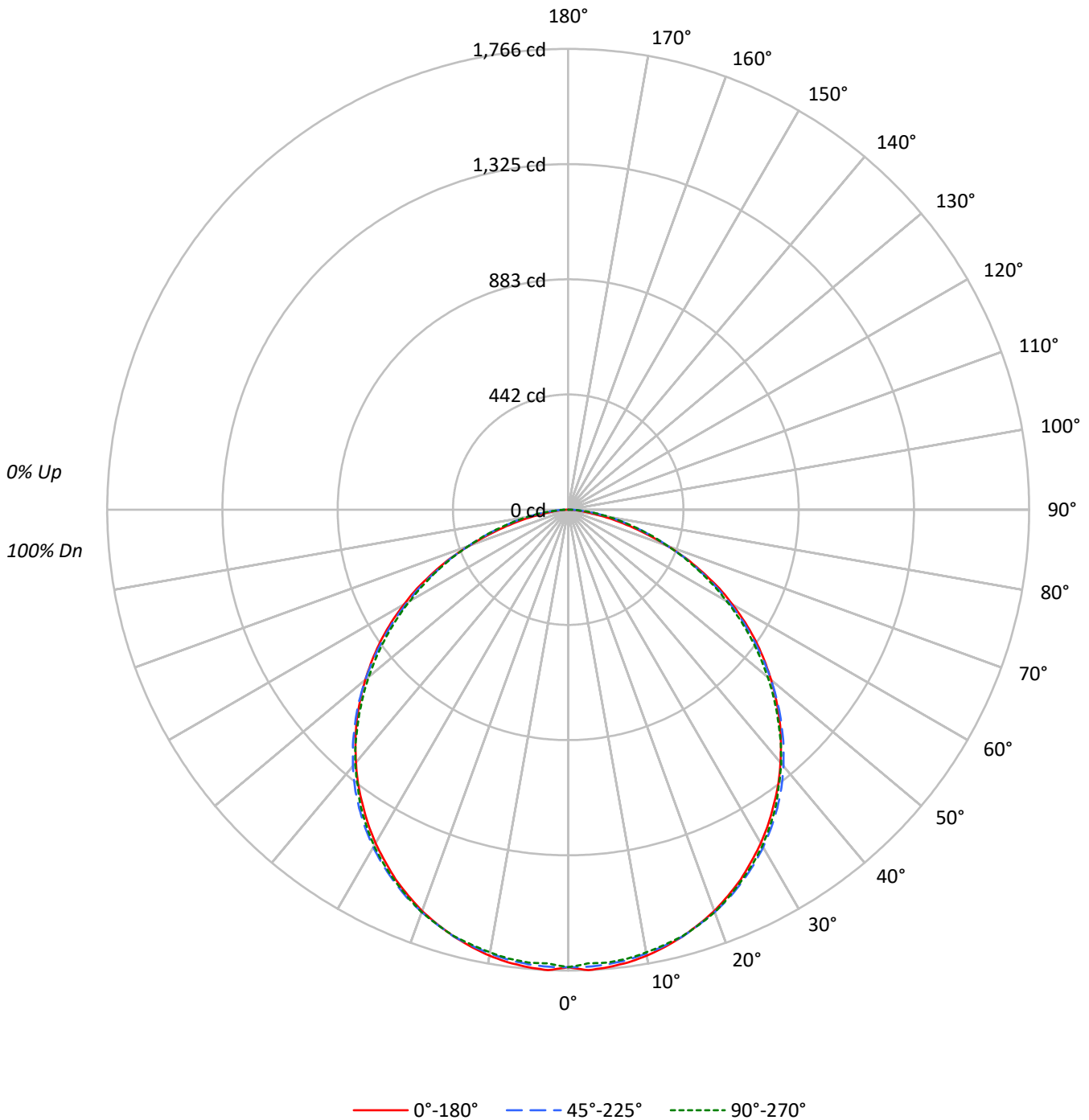
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	16880	16880	16880
5°	17007	16898	16835
10°	16966	16887	16839
15°	16877	16877	16861
20°	16766	16815	16815
25°	16607	16728	16676
30°	16405	16604	16532
35°	16161	16409	16294
40°	15894	16118	15956
45°	15606	15716	15472
50°	15198	15198	14954
55°	14715	14524	14306
60°	14004	13723	13503
65°	12944	12684	12575
70°	11333	11425	11378
75°	9117	10084	10144
80°	6481	8549	8643
85°	3943	7169	7169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15716 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	3.5
10°-20°	476.4	10.0
20°-30°	721.5	15.1
30°-40°	865.1	18.1
40°-50°	882.0	18.4
50°-60°	769.9	16.1
60°-70°	551.2	11.5
70°-80°	283.1	5.9
80°-90°	70.8	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°	1363.9	28.5
0°-40°	2229.0	46.6
0°-60°	3880.9	81.1
0°-90°	4786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1760	1742	1748	1744	1742	167
15°	1693	1679	1693	1693	1692	478
25°	1563	1552	1575	1570	1570	720
35°	1375	1372	1396	1386	1386	860
45°	1146	1143	1154	1140	1136	883
55°	877	865	865	852	852	782
65°	568	555	557	552	552	563
75°	245	256	271	273	273	264
85°	36	55	65	67	65	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.3	1753.3	1753.3	1753.3	1753.3
2.5°	1766.3	1746.8	1753.3	1748.5	1740.4
5°	1759.8	1742.0	1748.5	1743.6	1742.0
7.5°	1750.1	1732.2	1740.4	1737.1	1735.5
10°	1735.5	1717.6	1727.4	1724.1	1722.5
12.5°	1716.0	1699.8	1711.1	1707.9	1707.9
15°	1693.3	1678.7	1693.3	1693.3	1691.7
17.5°	1665.7	1652.7	1667.3	1668.9	1667.3
20°	1636.5	1621.8	1641.3	1639.7	1641.3
22.5°	1600.7	1589.4	1610.5	1605.6	1607.2
25°	1563.4	1552.0	1574.8	1569.9	1569.9
27.5°	1519.6	1511.4	1535.8	1530.9	1530.9
30°	1475.7	1467.6	1493.6	1487.1	1487.1
32.5°	1427.0	1422.2	1446.5	1438.4	1438.4
35°	1375.1	1371.8	1396.2	1386.4	1386.4
37.5°	1323.1	1319.9	1342.6	1331.2	1326.4
40°	1264.7	1263.1	1282.5	1269.6	1269.6
42.5°	1206.2	1204.6	1220.8	1204.6	1204.6
45°	1146.2	1142.9	1154.3	1139.7	1136.4
47.5°	1081.2	1078.0	1086.1	1069.9	1068.2
50°	1014.7	1011.4	1014.7	1000.1	998.4
52.5°	946.5	940.0	940.0	925.4	925.4
55°	876.7	865.3	865.3	852.3	852.3
57.5°	803.6	789.0	790.6	779.3	777.6
60°	727.3	711.1	712.7	703.0	701.3
62.5°	652.6	633.2	638.0	626.7	626.7
65°	568.2	555.2	556.8	552.0	552.0
67.5°	490.3	477.3	485.4	480.5	480.5
70°	402.6	394.5	405.9	405.9	404.2
72.5°	321.4	323.1	337.7	337.7	339.3
75°	245.1	256.5	271.1	272.7	272.7
77.5°	175.3	194.8	211.1	211.1	211.1
80°	116.9	139.6	154.2	157.5	155.9
82.5°	69.8	94.2	105.5	108.8	107.1
85°	35.7	55.2	64.9	66.6	64.9
87.5°	13.0	27.6	32.5	32.5	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)