

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: P688693

Luminaire Tested: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688693
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-93050-1-UNV-STD-W-4_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143.0 lumens
Efficiency: N/A
Efficacy: 83.6 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

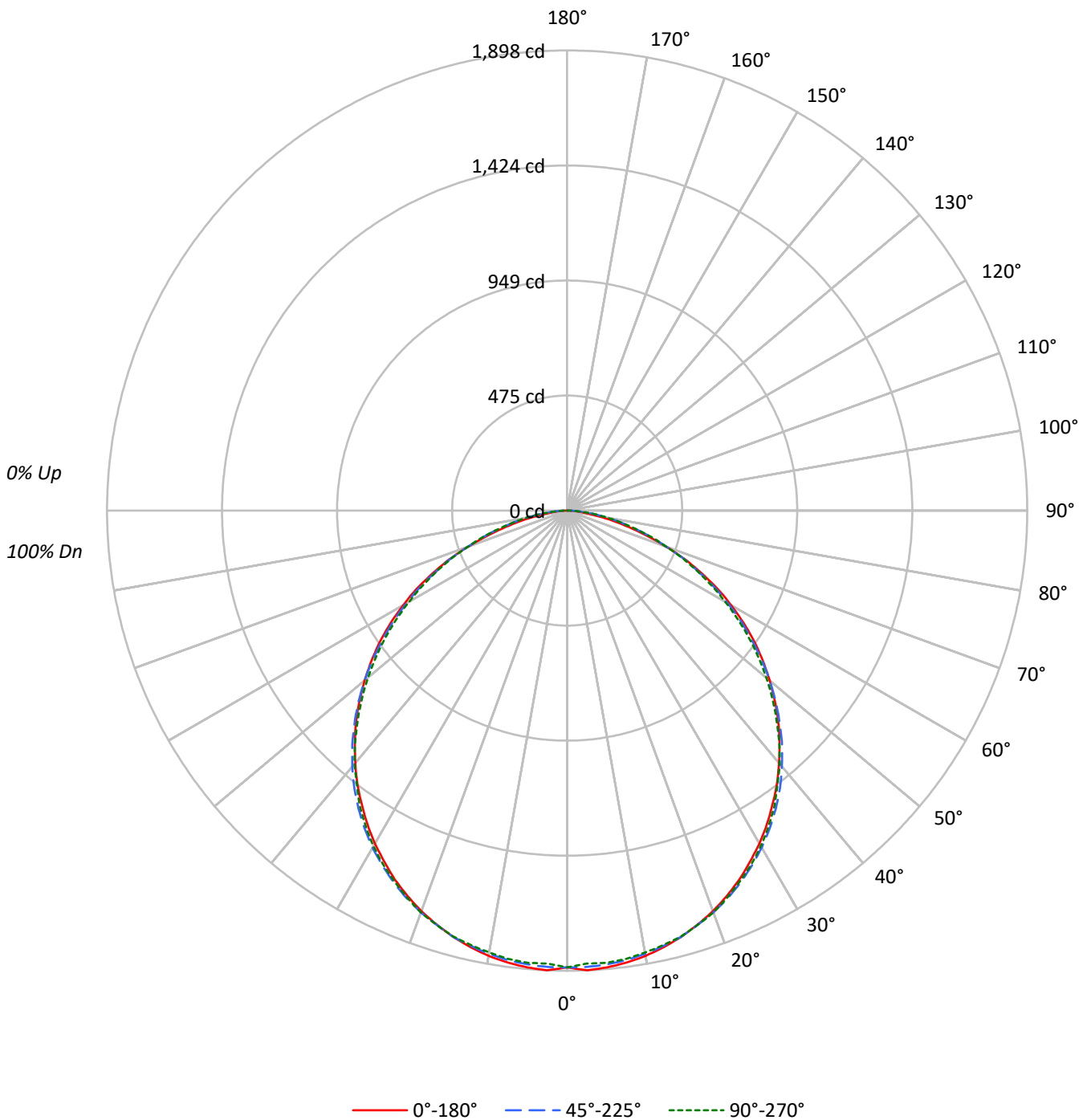
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	18139	18139	18139
5°	18276	18158	18090
10°	18231	18146	18095
15°	18136	18136	18118
20°	18016	18069	18069
25°	17846	17976	17920
30°	17629	17842	17764
35°	17366	17633	17509
40°	17079	17321	17145
45°	16770	16888	16627
50°	16330	16330	16069
55°	15813	15606	15373
60°	15049	14747	14510
65°	13910	13632	13511
70°	12177	12276	12228
75°	9798	10836	10902
80°	6963	9187	9286
85°	4242	7710	7710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	3.5
10°-20°	512.0	10.0
20°-30°	775.3	15.1
30°-40°	929.6	18.1
40°-50°	947.8	18.4
50°-60°	827.3	16.1
60°-70°	592.3	11.5
70°-80°	304.2	5.9
80°-90°	76.1	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°	1465.7	28.5
0°-40°	2395.3	46.6
0°-60°	4170.4	81.1
0°-90°	5143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1891	1872	1879	1874	1872	180
15°	1820	1804	1820	1820	1818	513
25°	1680	1668	1692	1687	1687	774
35°	1478	1474	1500	1490	1490	925
45°	1232	1228	1240	1225	1221	949
55°	942	930	930	916	916	840
65°	611	597	598	593	593	605
75°	263	276	291	293	293	283
85°	38	59	70	72	70	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.1	1884.1	1884.1	1884.1	1884.1
2.5°	1898.1	1877.1	1884.1	1878.9	1870.2
5°	1891.1	1871.9	1878.9	1873.6	1871.9
7.5°	1880.6	1861.4	1870.2	1866.7	1864.9
10°	1864.9	1845.7	1856.2	1852.7	1851.0
12.5°	1844.0	1826.5	1838.8	1835.3	1835.3
15°	1819.6	1803.9	1819.6	1819.6	1817.8
17.5°	1789.9	1776.0	1791.7	1793.4	1791.7
20°	1758.5	1742.8	1763.7	1762.0	1763.7
22.5°	1720.1	1707.9	1730.6	1725.4	1727.1
25°	1680.0	1667.8	1692.2	1687.0	1687.0
27.5°	1632.9	1624.2	1650.3	1645.1	1645.1
30°	1585.8	1577.1	1605.0	1598.0	1598.0
32.5°	1533.5	1528.2	1554.4	1545.7	1545.7
35°	1477.6	1474.1	1500.3	1489.8	1489.8
37.5°	1421.8	1418.3	1442.7	1430.5	1425.3
40°	1359.0	1357.3	1378.2	1364.2	1364.2
42.5°	1296.2	1294.5	1311.9	1294.5	1294.5
45°	1231.7	1228.2	1240.4	1224.7	1221.2
47.5°	1161.9	1158.4	1167.1	1149.7	1147.9
50°	1090.3	1086.9	1090.3	1074.6	1072.9
52.5°	1017.1	1010.1	1010.1	994.4	994.4
55°	942.1	929.8	929.8	915.9	915.9
57.5°	863.6	847.9	849.6	837.4	835.6
60°	781.6	764.1	765.9	755.4	753.6
62.5°	701.3	680.4	685.6	673.4	673.4
65°	610.6	596.6	598.4	593.1	593.1
67.5°	526.9	512.9	521.6	516.4	516.4
70°	432.6	423.9	436.1	436.1	434.4
72.5°	345.4	347.2	362.9	362.9	364.6
75°	263.4	275.6	291.3	293.1	293.1
77.5°	188.4	209.3	226.8	226.8	226.8
80°	125.6	150.0	165.7	169.2	167.5
82.5°	75.0	101.2	113.4	116.9	115.1
85°	38.4	59.3	69.8	71.5	69.8
87.5°	14.0	29.7	34.9	34.9	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)