

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: P688689

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688689
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_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251.1 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

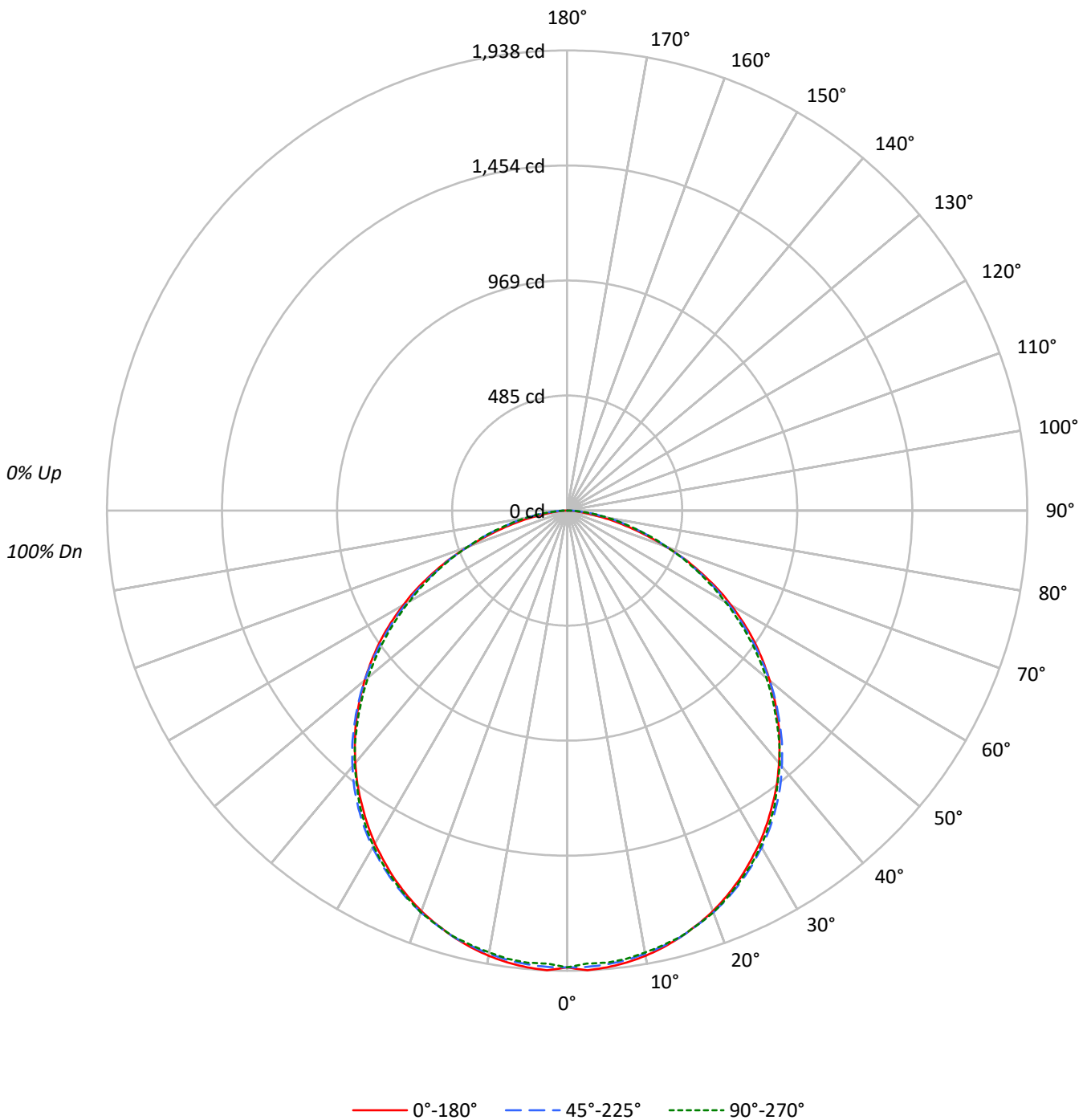
Input Watts (W): 61.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18520	18520	18520
5°	18659	18540	18470
10°	18614	18527	18475
15°	18517	18517	18499
20°	18395	18450	18450
25°	18221	18354	18296
30°	17999	18217	18138
35°	17731	18003	17878
40°	17439	17685	17505
45°	17121	17242	16975
50°	16674	16674	16406
55°	16145	15935	15695
60°	15365	15057	14816
65°	14201	13919	13796
70°	12433	12535	12484
75°	10006	11066	11129
80°	7108	9381	9481
85°	4330	7865	7865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	3.5
10°-20°	522.7	10.0
20°-30°	791.6	15.1
30°-40°	949.2	18.1
40°-50°	967.7	18.4
50°-60°	844.7	16.1
60°-70°	604.7	11.5
70°-80°	310.6	5.9
80°-90°	77.7	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°	1496.5	28.5
0°-40°	2445.6	46.6
0°-60°	4258.0	81.1
0°-90°	5251.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5251.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1931	1911	1918	1913	1911	183
15°	1858	1842	1858	1858	1856	524
25°	1715	1703	1728	1722	1722	790
35°	1509	1505	1532	1521	1521	944
45°	1258	1254	1266	1250	1247	969
55°	962	949	949	935	935	858
65°	623	609	611	606	606	617
75°	269	281	298	299	299	289
85°	39	61	71	73	71	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1923.7	1923.7	1923.7	1923.7	1923.7
2.5°	1938.0	1916.6	1923.7	1918.4	1909.5
5°	1930.8	1911.2	1918.4	1913.0	1911.2
7.5°	1920.1	1900.6	1909.5	1905.9	1904.1
10°	1904.1	1884.5	1895.2	1891.6	1889.9
12.5°	1882.7	1864.9	1877.4	1873.8	1873.8
15°	1857.8	1841.8	1857.8	1857.8	1856.0
17.5°	1827.5	1813.3	1829.3	1831.1	1829.3
20°	1795.5	1779.4	1800.8	1799.0	1800.8
22.5°	1756.3	1743.8	1767.0	1761.6	1763.4
25°	1715.3	1702.8	1727.8	1722.4	1722.4
27.5°	1667.2	1658.3	1685.0	1679.7	1679.7
30°	1619.1	1610.2	1638.7	1631.6	1631.6
32.5°	1565.7	1560.3	1587.1	1578.2	1578.2
35°	1508.7	1505.1	1531.8	1521.2	1521.2
37.5°	1451.7	1448.1	1473.1	1460.6	1455.2
40°	1387.6	1385.8	1407.2	1392.9	1392.9
42.5°	1323.4	1321.7	1339.5	1321.7	1321.7
45°	1257.5	1254.0	1266.4	1250.4	1246.8
47.5°	1186.3	1182.7	1191.6	1173.8	1172.0
50°	1113.3	1109.7	1113.3	1097.2	1095.4
52.5°	1038.4	1031.3	1031.3	1015.3	1015.3
55°	961.9	949.4	949.4	935.1	935.1
57.5°	881.7	865.7	867.4	855.0	853.2
60°	798.0	780.2	782.0	771.3	769.5
62.5°	716.0	694.7	700.0	687.5	687.5
65°	623.4	609.2	611.0	605.6	605.6
67.5°	537.9	523.7	532.6	527.2	527.2
70°	441.7	432.8	445.3	445.3	443.5
72.5°	352.7	354.5	370.5	370.5	372.3
75°	269.0	281.4	297.5	299.2	299.2
77.5°	192.4	213.7	231.6	231.6	231.6
80°	128.2	153.2	169.2	172.8	171.0
82.5°	76.6	103.3	115.8	119.3	117.6
85°	39.2	60.6	71.2	73.0	71.2
87.5°	14.2	30.3	35.6	35.6	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)