

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: P688687

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688687
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5035.5 lumens
Efficiency: N/A
Efficacy: 82.3 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

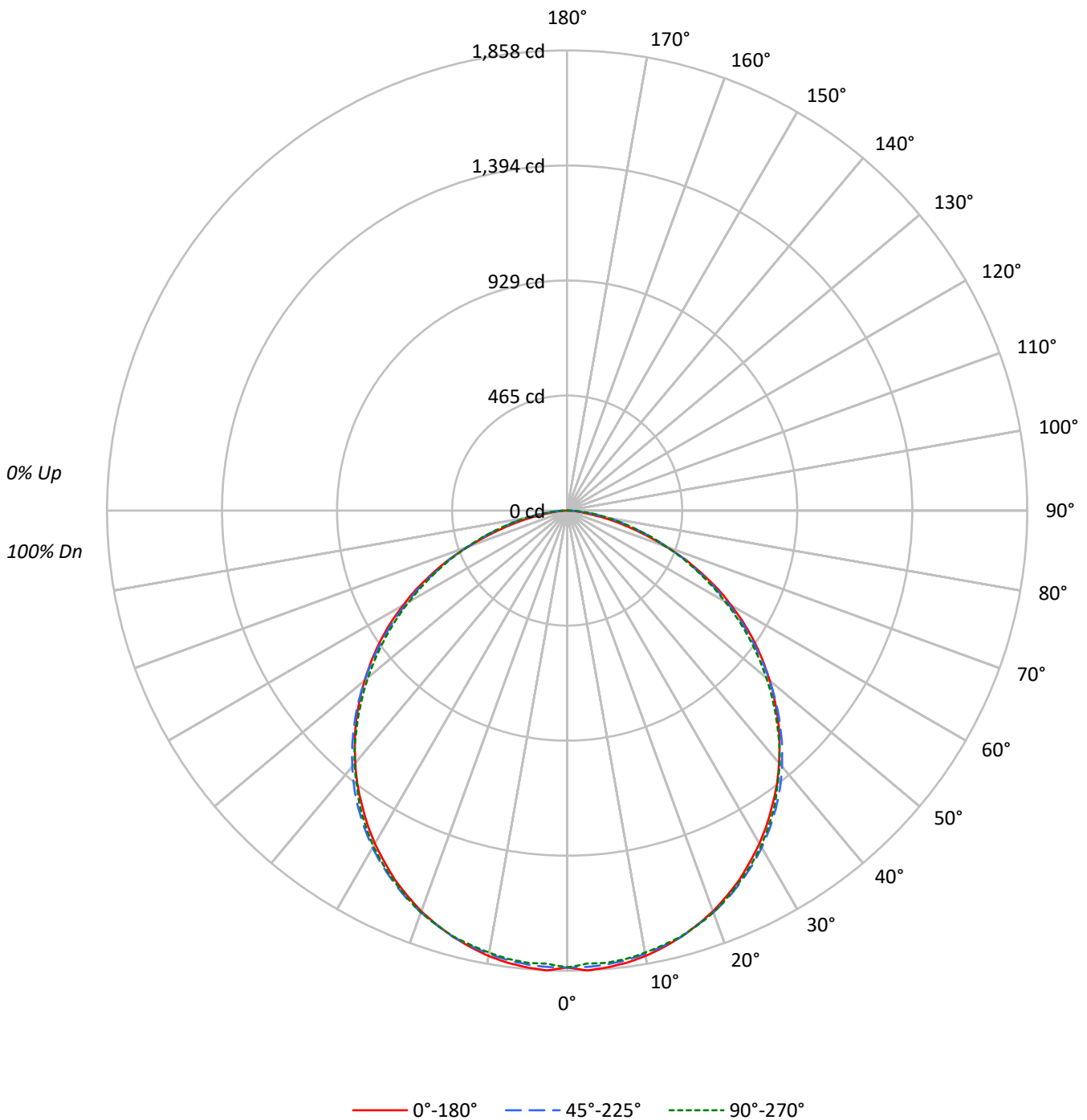
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	17760	17760	17760
5°	17894	17778	17712
10°	17850	17767	17717
15°	17756	17756	17739
20°	17640	17692	17692
25°	17473	17600	17545
30°	17260	17469	17393
35°	17003	17265	17144
40°	16722	16959	16787
45°	16418	16534	16280
50°	15990	15990	15734
55°	15482	15281	15051
60°	14734	14437	14208
65°	13618	13347	13228
70°	11924	12019	11972
75°	9593	10612	10676
80°	6819	8998	9092
85°	4153	7545	7545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	3.5
10°-20°	501.3	10.0
20°-30°	759.1	15.1
30°-40°	910.2	18.1
40°-50°	928.0	18.4
50°-60°	810.0	16.1
60°-70°	579.9	11.5
70°-80°	297.9	5.9
80°-90°	74.5	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°	1435.0	28.5
0°-40°	2345.2	46.6
0°-60°	4083.2	81.1
0°-90°	5035.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1852	1833	1840	1834	1833	176
15°	1782	1766	1782	1782	1780	503
25°	1645	1633	1657	1652	1652	757
35°	1447	1443	1469	1459	1459	905
45°	1206	1202	1214	1199	1196	929
55°	922	910	910	897	897	823
65°	598	584	586	581	581	592
75°	258	270	285	287	287	278
85°	38	58	68	70	68	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1844.7	1844.7	1844.7	1844.7	1844.7
2.5°	1858.4	1837.9	1844.7	1839.6	1831.1
5°	1851.6	1832.8	1839.6	1834.5	1832.8
7.5°	1841.3	1822.5	1831.1	1827.7	1825.9
10°	1825.9	1807.2	1817.4	1814.0	1812.3
12.5°	1805.4	1788.4	1800.3	1796.9	1796.9
15°	1781.5	1766.2	1781.5	1781.5	1779.8
17.5°	1752.5	1738.8	1754.2	1755.9	1754.2
20°	1721.8	1706.4	1726.9	1725.2	1726.9
22.5°	1684.2	1672.2	1694.4	1689.3	1691.0
25°	1644.9	1632.9	1656.8	1651.7	1651.7
27.5°	1598.8	1590.2	1615.8	1610.7	1610.7
30°	1552.6	1544.1	1571.4	1564.6	1564.6
32.5°	1501.4	1496.3	1521.9	1513.4	1513.4
35°	1446.7	1443.3	1469.0	1458.7	1458.7
37.5°	1392.1	1388.7	1412.6	1400.6	1395.5
40°	1330.6	1328.9	1349.4	1335.7	1335.7
42.5°	1269.1	1267.4	1284.5	1267.4	1267.4
45°	1205.9	1202.5	1214.4	1199.1	1195.7
47.5°	1137.6	1134.2	1142.7	1125.6	1123.9
50°	1067.6	1064.1	1067.6	1052.2	1050.5
52.5°	995.8	989.0	989.0	973.6	973.6
55°	922.4	910.4	910.4	896.7	896.7
57.5°	845.5	830.1	831.8	819.9	818.2
60°	765.2	748.1	749.8	739.6	737.9
62.5°	686.7	666.2	671.3	659.3	659.3
65°	597.8	584.2	585.9	580.7	580.7
67.5°	515.8	502.2	510.7	505.6	505.6
70°	423.6	415.1	427.0	427.0	425.3
72.5°	338.2	339.9	355.3	355.3	357.0
75°	257.9	269.9	285.3	287.0	287.0
77.5°	184.5	205.0	222.1	222.1	222.1
80°	123.0	146.9	162.3	165.7	164.0
82.5°	73.4	99.1	111.0	114.4	112.7
85°	37.6	58.1	68.3	70.0	68.3
87.5°	13.7	29.0	34.2	34.2	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)