

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: P688695

Luminaire Tested: SQ4R-PC3-125D-93050-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688695
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_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5245.0 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

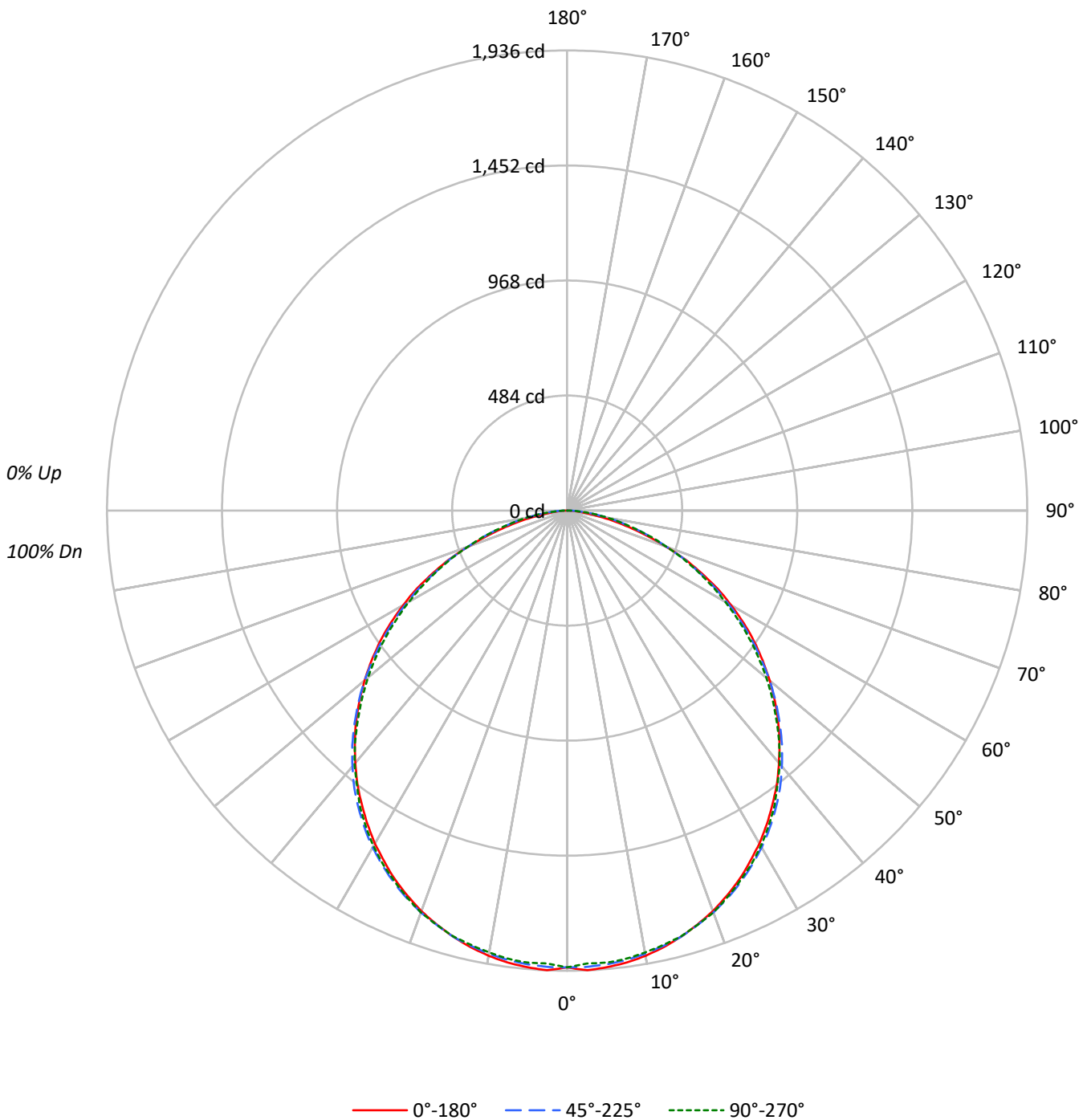
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18499	18499	18499
5°	18638	18517	18449
10°	18593	18506	18454
15°	18496	18496	18478
20°	18374	18428	18428
25°	18200	18332	18275
30°	17978	18196	18117
35°	17710	17983	17857
40°	17419	17664	17485
45°	17102	17223	16956
50°	16655	16655	16388
55°	16125	15917	15679
60°	15348	15038	14799
65°	14185	13900	13780
70°	12419	12520	12470
75°	9995	11051	11118
80°	7102	9370	9469
85°	4319	7865	7865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17223 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	3.5
10°-20°	522.1	10.0
20°-30°	790.7	15.1
30°-40°	948.1	18.1
40°-50°	966.6	18.4
50°-60°	843.7	16.1
60°-70°	604.0	11.5
70°-80°	310.3	5.9
80°-90°	77.6	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°	1494.7	28.5
0°-40°	2442.8	46.6
0°-60°	4253.1	81.1
0°-90°	5245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1929	1909	1916	1911	1909	183
15°	1856	1840	1856	1856	1854	523
25°	1713	1701	1726	1720	1720	789
35°	1507	1503	1530	1519	1519	943
45°	1256	1252	1265	1249	1245	967
55°	961	948	948	934	934	857
65°	623	608	610	605	605	617
75°	269	281	297	299	299	289
85°	39	60	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°	1921.5	1921.5	1921.5	1921.5	1921.5
2.5°	1935.7	1914.4	1921.5	1916.1	1907.3
5°	1928.6	1909.0	1916.1	1910.8	1909.0
7.5°	1917.9	1898.4	1907.3	1903.7	1901.9
10°	1901.9	1882.3	1893.0	1889.5	1887.7
12.5°	1880.6	1862.8	1875.2	1871.7	1871.7
15°	1855.7	1839.6	1855.7	1855.7	1853.9
17.5°	1825.4	1811.2	1827.2	1829.0	1827.2
20°	1793.4	1777.4	1798.7	1796.9	1798.7
22.5°	1754.2	1741.8	1764.9	1759.6	1761.4
25°	1713.3	1700.9	1725.8	1720.4	1720.4
27.5°	1665.3	1656.4	1683.1	1677.7	1677.7
30°	1617.2	1608.4	1636.8	1629.7	1629.7
32.5°	1563.9	1558.5	1585.2	1576.3	1576.3
35°	1506.9	1503.4	1530.1	1519.4	1519.4
37.5°	1450.0	1446.5	1471.4	1458.9	1453.6
40°	1386.0	1384.2	1405.5	1391.3	1391.3
42.5°	1321.9	1320.1	1337.9	1320.1	1320.1
45°	1256.1	1252.5	1265.0	1249.0	1245.4
47.5°	1184.9	1181.4	1190.3	1172.5	1170.7
50°	1112.0	1108.4	1112.0	1096.0	1094.2
52.5°	1037.2	1030.1	1030.1	1014.1	1014.1
55°	960.7	948.3	948.3	934.1	934.1
57.5°	880.7	864.7	866.4	854.0	852.2
60°	797.1	779.3	781.0	770.4	768.6
62.5°	715.2	693.9	699.2	686.8	686.8
65°	622.7	608.5	610.2	604.9	604.9
67.5°	537.3	523.1	532.0	526.6	526.6
70°	441.2	432.3	444.8	444.8	443.0
72.5°	352.3	354.1	370.1	370.1	371.8
75°	268.7	281.1	297.1	298.9	298.9
77.5°	192.1	213.5	231.3	231.3	231.3
80°	128.1	153.0	169.0	172.6	170.8
82.5°	76.5	103.2	115.6	119.2	117.4
85°	39.1	60.5	71.2	72.9	71.2
87.5°	14.2	30.2	35.6	35.6	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)