

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: P688483

Luminaire Tested: SQ4R-PC3-125D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688483
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-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4939.2 lumens
Efficiency: N/A
Efficacy: 99.8 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

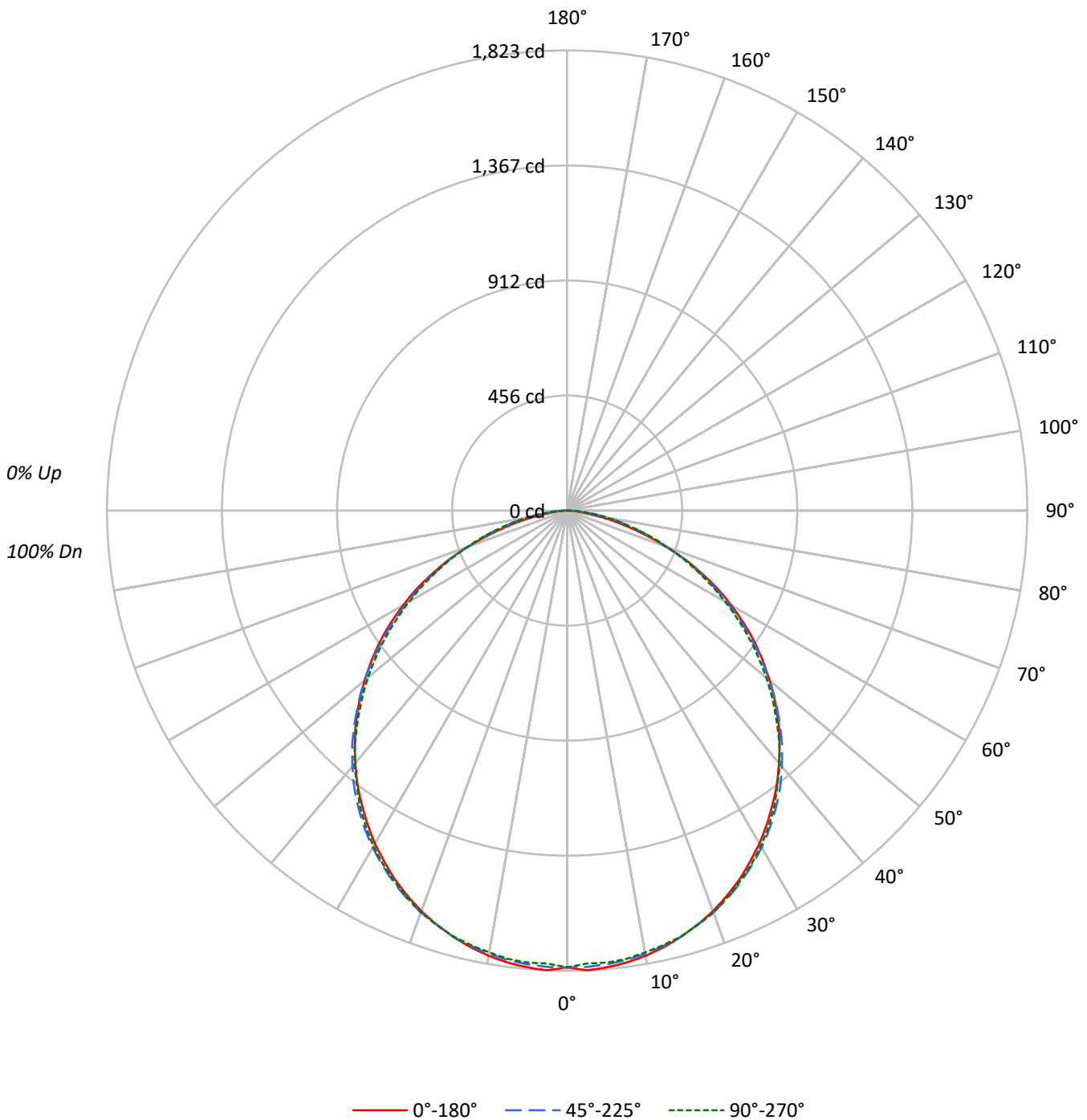
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	17420	17420	17420
5°	17551	17438	17373
10°	17509	17426	17378
15°	17416	17416	17400
20°	17302	17353	17353
25°	17138	17263	17210
30°	16930	17135	17061
35°	16678	16933	16816
40°	16402	16634	16466
45°	16104	16218	15968
50°	15683	15683	15433
55°	15185	14989	14764
60°	14453	14162	13937
65°	13358	13092	12976
70°	11696	11791	11744
75°	9411	10408	10471
80°	6686	8826	8915
85°	4076	7401	7401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	3.5
10°-20°	491.7	10.0
20°-30°	744.6	15.1
30°-40°	892.8	18.1
40°-50°	910.2	18.4
50°-60°	794.5	16.1
60°-70°	568.8	11.5
70°-80°	292.2	5.9
80°-90°	73.1	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°	1407.6	28.5
0°-40°	2300.4	46.6
0°-60°	4005.1	81.1
0°-90°	4939.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1816	1798	1804	1799	1798	173
15°	1747	1732	1747	1747	1746	493
25°	1613	1602	1625	1620	1620	743
35°	1419	1416	1441	1431	1431	888
45°	1183	1180	1191	1176	1173	911
55°	905	893	893	880	880	807
65°	586	573	575	570	570	581
75°	253	265	280	282	282	272
85°	37	57	67	69	67	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.4	1809.4	1809.4	1809.4	1809.4
2.5°	1822.8	1802.7	1809.4	1804.4	1796.0
5°	1816.1	1797.7	1804.4	1799.4	1797.7
7.5°	1806.1	1787.7	1796.0	1792.7	1791.0
10°	1791.0	1772.6	1782.6	1779.3	1777.6
12.5°	1770.9	1754.2	1765.9	1762.5	1762.5
15°	1747.4	1732.4	1747.4	1747.4	1745.8
17.5°	1719.0	1705.6	1720.6	1722.3	1720.6
20°	1688.8	1673.7	1693.8	1692.2	1693.8
22.5°	1652.0	1640.2	1662.0	1657.0	1658.7
25°	1613.4	1601.7	1625.1	1620.1	1620.1
27.5°	1568.2	1559.8	1584.9	1579.9	1579.9
30°	1522.9	1514.6	1541.4	1534.7	1534.7
32.5°	1472.7	1467.7	1492.8	1484.4	1484.4
35°	1419.1	1415.7	1440.8	1430.8	1430.8
37.5°	1365.5	1362.1	1385.6	1373.8	1368.8
40°	1305.1	1303.5	1323.6	1310.2	1310.2
42.5°	1244.8	1243.2	1259.9	1243.2	1243.2
45°	1182.8	1179.5	1191.2	1176.1	1172.8
47.5°	1115.8	1112.5	1120.8	1104.1	1102.4
50°	1047.1	1043.8	1047.1	1032.1	1030.4
52.5°	976.8	970.1	970.1	955.0	955.0
55°	904.7	893.0	893.0	879.6	879.6
57.5°	829.3	814.2	815.9	804.2	802.5
60°	750.6	733.8	735.5	725.5	723.8
62.5°	673.5	653.4	658.4	646.7	646.7
65°	586.4	573.0	574.7	569.6	569.6
67.5°	506.0	492.6	500.9	495.9	495.9
70°	415.5	407.1	418.9	418.9	417.2
72.5°	331.7	333.4	348.5	348.5	350.2
75°	253.0	264.7	279.8	281.5	281.5
77.5°	180.9	201.0	217.8	217.8	217.8
80°	120.6	144.1	159.2	162.5	160.8
82.5°	72.0	97.2	108.9	112.3	110.6
85°	36.9	57.0	67.0	68.7	67.0
87.5°	13.4	28.5	33.5	33.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)