

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: P688555

Luminaire Tested: SQ4R-PP3-125D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-125D-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 4892.5 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

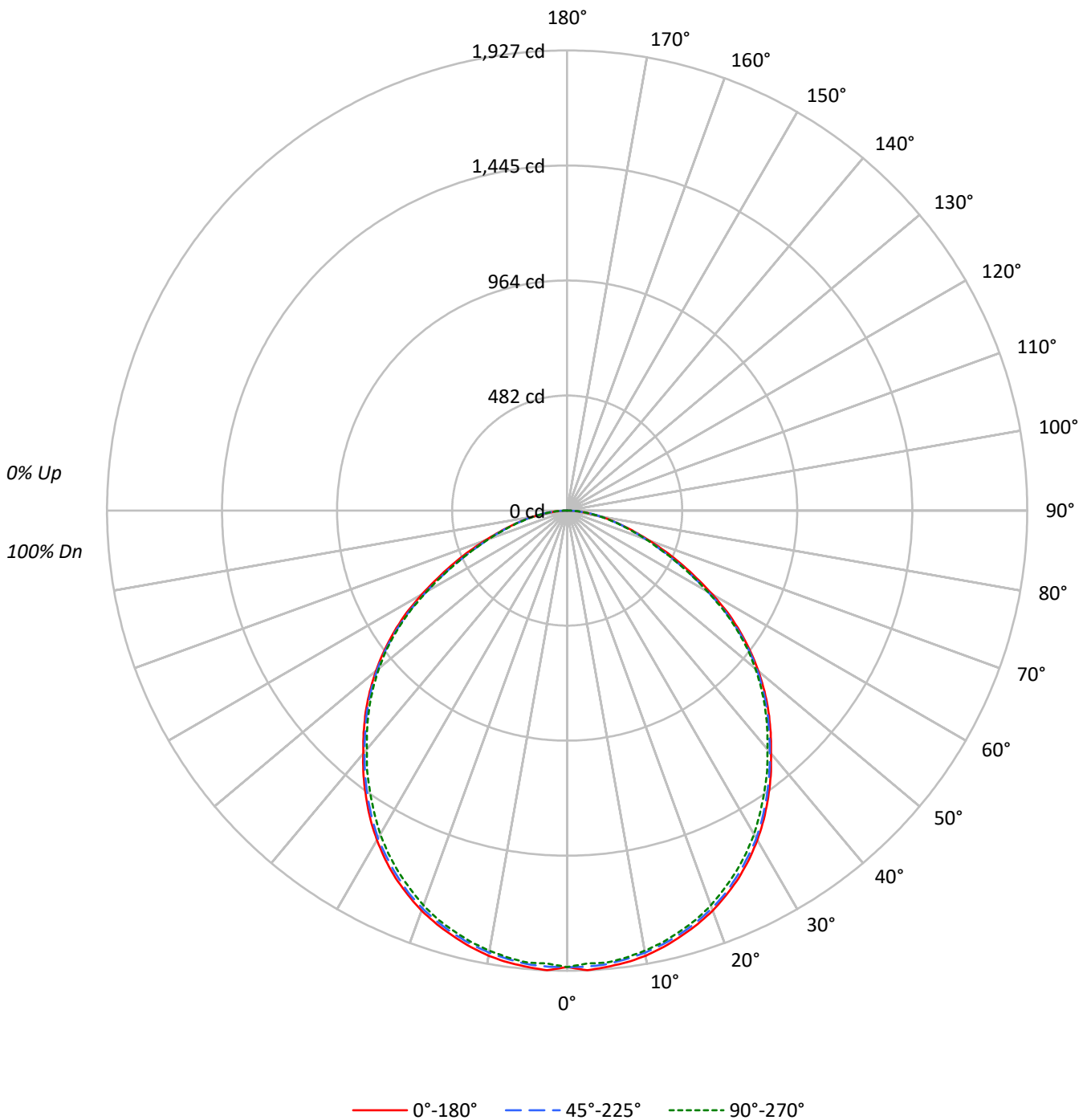
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18404	18404	18404
5°	18539	18426	18361
10°	18508	18377	18295
15°	18385	18284	18185
20°	18263	18160	18022
25°	18046	17921	17743
30°	17712	17619	17395
35°	17248	17131	16913
40°	16697	16592	16402
45°	16241	16127	15968
50°	15657	15557	15407
55°	14848	14651	14539
60°	13517	13130	13064
65°	11907	11411	11374
70°	10280	9858	9858
75°	8849	8726	8600
80°	7801	7895	7712
85°	6109	6661	6661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	3.7
10°-20°	516.4	10.6
20°-30°	773.5	15.8
30°-40°	907.2	18.5
40°-50°	910.0	18.6
50°-60°	777.0	15.9
60°-70°	505.0	10.3
70°-80°	252.9	5.2
80°-90°	69.4	1.4
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°	1470.8	30.1
0°-40°	2378.1	48.6
0°-60°	4065.2	83.1
0°-90°	4892.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4892.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1918	1900	1907	1900	1900	182
15°	1845	1826	1834	1828	1824	521
25°	1699	1679	1687	1672	1670	782
35°	1468	1452	1458	1441	1439	917
45°	1193	1184	1184	1173	1173	919
55°	885	881	873	868	866	787
65°	523	513	501	498	499	521
75°	238	238	235	233	231	257
85°	55	60	60	60	60	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1911.6	1911.6	1911.6	1911.6	1911.6
2.5°	1926.7	1906.6	1911.6	1908.2	1898.2
5°	1918.3	1899.9	1906.6	1899.9	1899.9
7.5°	1908.2	1888.1	1894.8	1888.1	1888.1
10°	1893.2	1873.1	1879.8	1873.1	1871.4
12.5°	1871.4	1851.3	1859.7	1851.3	1851.3
15°	1844.6	1826.1	1834.5	1827.8	1824.5
17.5°	1816.1	1796.0	1806.0	1797.7	1796.0
20°	1782.6	1762.5	1772.5	1759.1	1759.1
22.5°	1742.4	1722.3	1734.0	1715.6	1715.6
25°	1698.8	1678.7	1687.1	1672.0	1670.3
27.5°	1648.6	1628.5	1636.8	1620.1	1620.1
30°	1593.3	1574.8	1584.9	1566.5	1564.8
32.5°	1533.0	1516.2	1522.9	1504.5	1502.8
35°	1467.6	1452.5	1457.6	1440.8	1439.1
37.5°	1400.6	1383.8	1390.6	1375.5	1375.5
40°	1328.6	1318.5	1320.2	1308.5	1305.1
42.5°	1261.5	1249.8	1251.5	1239.8	1239.8
45°	1192.9	1184.5	1184.5	1172.8	1172.8
47.5°	1120.8	1114.1	1112.4	1102.4	1102.4
50°	1045.4	1040.4	1038.7	1030.3	1028.7
52.5°	966.7	965.0	958.3	951.6	951.6
55°	884.6	881.2	872.9	867.8	866.2
57.5°	797.5	790.8	782.4	774.0	775.7
60°	702.0	695.3	681.9	678.5	678.5
62.5°	609.8	601.5	588.1	583.0	586.4
65°	522.7	512.7	500.9	497.6	499.3
67.5°	442.3	432.2	418.8	418.8	417.2
70°	365.2	360.2	350.2	350.2	350.2
72.5°	296.5	294.9	288.2	288.2	286.5
75°	237.9	237.9	234.6	232.9	231.2
77.5°	187.6	187.6	186.0	184.3	180.9
80°	140.7	144.1	142.4	140.7	139.1
82.5°	97.2	100.5	100.5	97.2	97.2
85°	55.3	60.3	60.3	60.3	60.3
87.5°	18.4	25.1	26.8	26.8	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)