

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: P688924

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4970.3 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

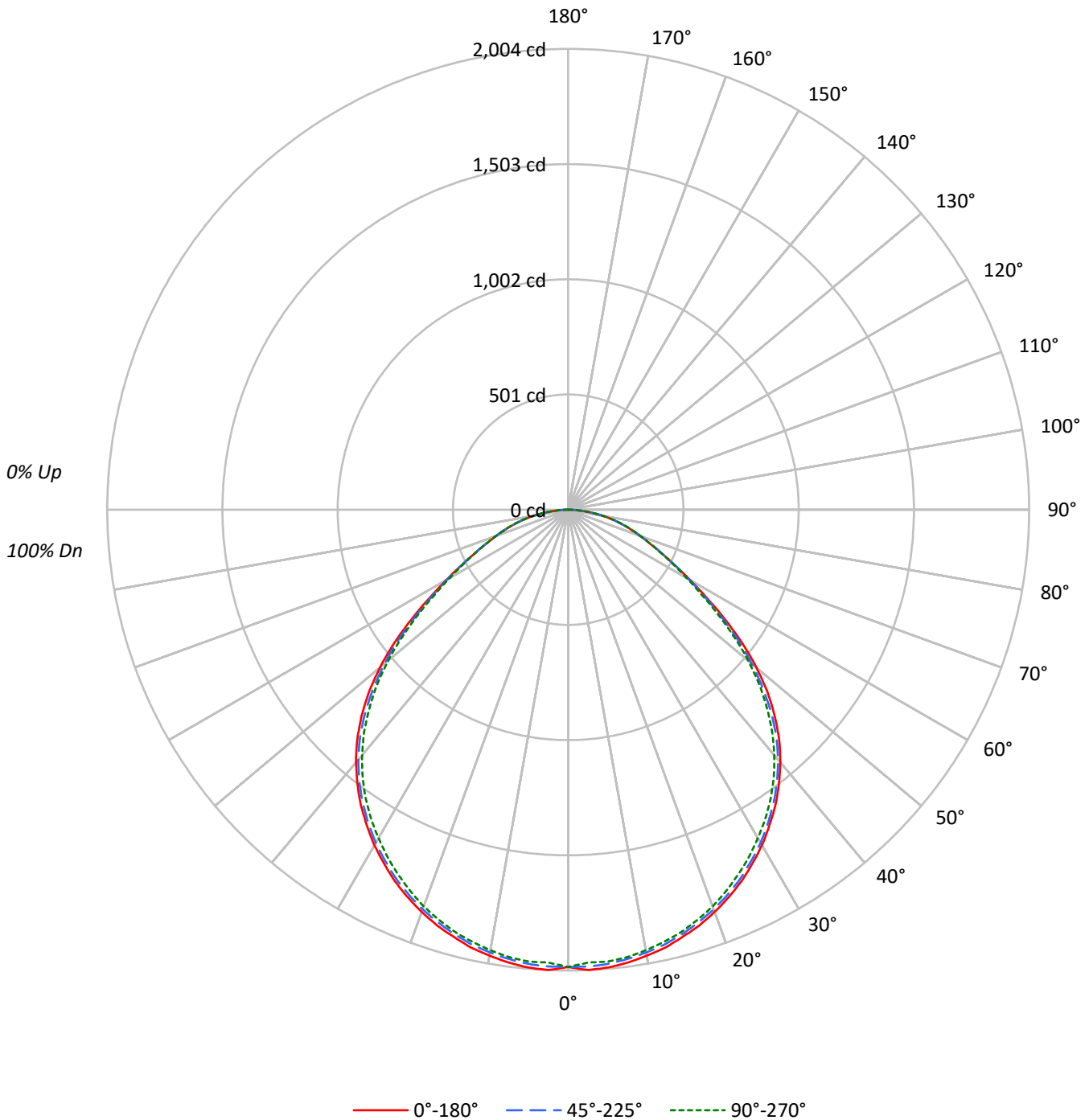
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47					47			
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41					41			
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19141	19141	19141
5°	19313	19164	19064
10°	19252	19118	19017
15°	19167	19048	18945
20°	19070	18947	18807
25°	18937	18809	18591
30°	18732	18599	18333
35°	18455	18294	18034
40°	18035	17841	17518
45°	17299	16997	16647
50°	16005	15620	15311
55°	13968	13653	13366
60°	11770	11672	11441
65°	10180	10221	10142
70°	9351	9399	9399
75°	8983	8983	9046
80°	8449	8544	8449
85°	6804	7567	7567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17299 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	3.8
10°-20°	538.2	10.8
20°-30°	811.7	16.3
30°-40°	967.4	19.5
40°-50°	954.3	19.2
50°-60°	728.0	14.6
60°-70°	449.3	9.0
70°-80°	256.0	5.2
80°-90°	77.2	1.6
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°	1538.1	30.9
0°-40°	2505.5	50.4
0°-60°	4187.8	84.3
0°-90°	4970.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4970.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1998	1976	1983	1976	1973	190
15°	1923	1902	1911	1904	1901	543
25°	1783	1760	1771	1752	1750	821
35°	1570	1552	1557	1536	1534	981
45°	1271	1254	1248	1226	1223	975
55°	832	818	813	800	796	746
65°	447	444	449	445	445	451
75°	242	242	242	243	243	255
85°	62	65	68	68	68	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.2	1988.2	1988.2	1988.2	1988.2
2.5°	2003.6	1981.3	1988.2	1983.0	1971.0
5°	1998.4	1976.2	1983.0	1976.2	1972.7
7.5°	1986.4	1964.2	1971.0	1964.2	1962.5
10°	1969.3	1948.8	1955.6	1948.8	1945.3
12.5°	1950.5	1928.2	1936.8	1928.2	1924.8
15°	1923.1	1902.5	1911.1	1904.2	1900.8
17.5°	1895.7	1873.4	1882.0	1875.1	1870.0
20°	1861.4	1840.9	1849.4	1837.5	1835.7
22.5°	1823.8	1803.2	1811.8	1794.6	1794.6
25°	1782.7	1760.4	1770.7	1751.8	1750.1
27.5°	1734.7	1714.2	1722.7	1703.9	1702.2
30°	1685.0	1664.5	1673.1	1652.5	1649.1
32.5°	1628.5	1609.7	1616.5	1596.0	1594.3
35°	1570.3	1551.5	1556.6	1536.1	1534.4
37.5°	1505.2	1488.1	1491.5	1469.3	1467.6
40°	1435.0	1417.9	1419.6	1395.6	1393.9
42.5°	1358.0	1340.8	1339.1	1315.2	1313.4
45°	1270.6	1253.5	1248.4	1226.1	1222.7
47.5°	1174.7	1157.6	1147.3	1128.5	1126.8
50°	1068.6	1051.4	1042.9	1027.5	1022.3
52.5°	953.8	936.7	929.9	916.2	911.0
55°	832.2	818.5	813.4	799.7	796.3
57.5°	715.8	705.5	703.8	690.1	688.4
60°	611.3	606.2	606.2	594.2	594.2
62.5°	522.3	518.9	522.3	515.4	513.7
65°	446.9	443.5	448.7	445.2	445.2
67.5°	383.6	383.6	387.0	385.3	385.3
70°	332.2	332.2	333.9	333.9	333.9
72.5°	286.0	284.3	289.4	289.4	287.7
75°	241.5	241.5	241.5	243.2	243.2
77.5°	196.9	196.9	198.6	198.6	196.9
80°	152.4	154.1	154.1	152.4	152.4
82.5°	107.9	109.6	109.6	109.6	107.9
85°	61.6	65.1	68.5	68.5	68.5
87.5°	22.3	29.1	34.2	34.2	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)