

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: P688591

Luminaire Tested: SQ4R-PR1-125D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688591
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-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4838.9 lumens
Efficiency: N/A
Efficacy: 97.8 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

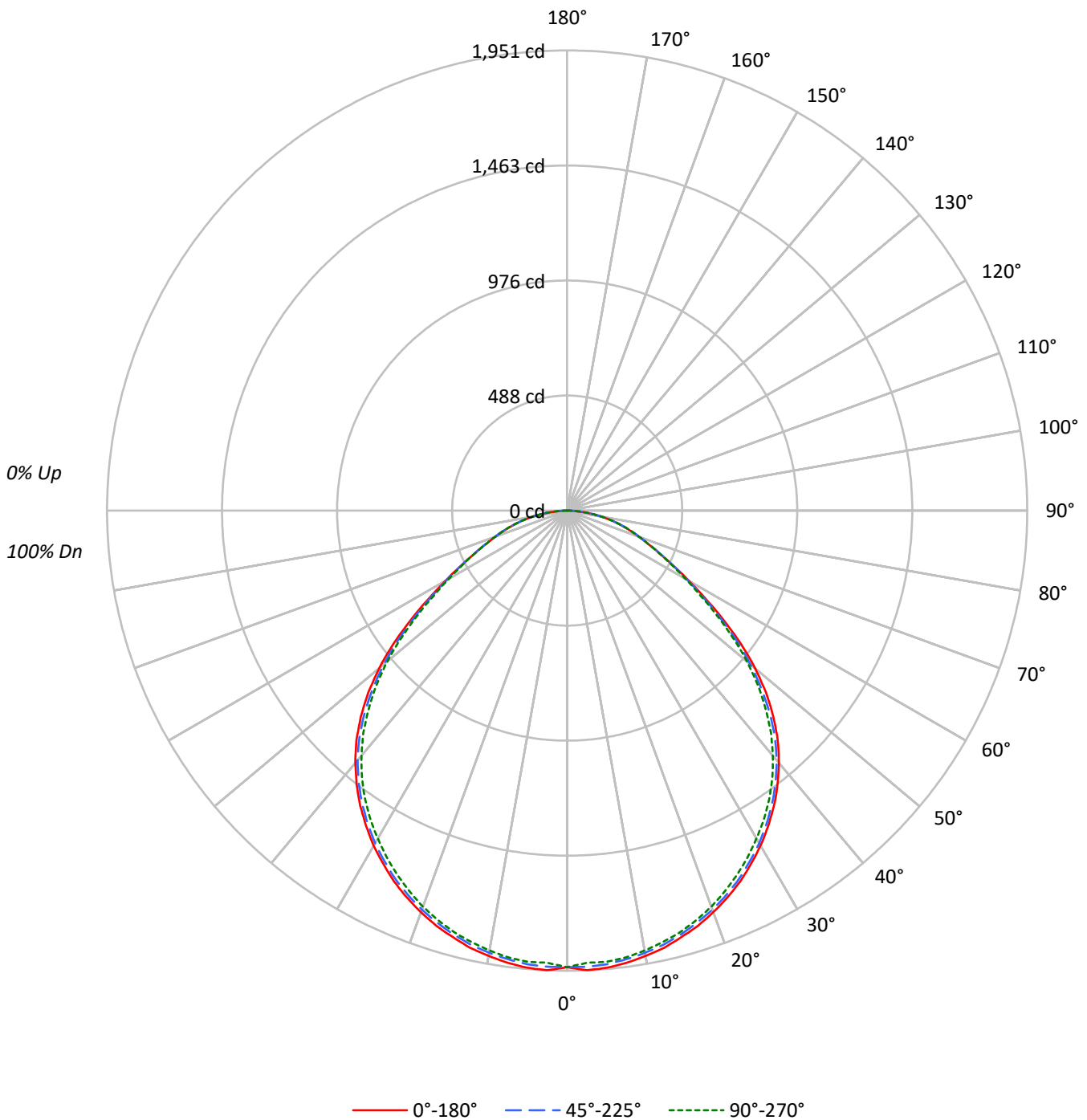
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18635	18635	18635
5°	18803	18658	18561
10°	18743	18612	18515
15°	18660	18545	18445
20°	18566	18448	18310
25°	18436	18312	18100
30°	18237	18107	17848
35°	17968	17811	17556
40°	17558	17370	17055
45°	16842	16548	16207
50°	15581	15207	14907
55°	13601	13292	13012
60°	11460	11364	11139
65°	9912	9950	9875
70°	9103	9151	9151
75°	8745	8745	8805
80°	8228	8316	8228
85°	6628	7368	7368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16842 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	3.8
10°-20°	524.0	10.8
20°-30°	790.3	16.3
30°-40°	941.8	19.5
40°-50°	929.1	19.2
50°-60°	708.7	14.6
60°-70°	437.4	9.0
70°-80°	249.3	5.2
80°-90°	75.2	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°	1497.4	30.9
0°-40°	2439.3	50.4
0°-60°	4077.1	84.3
0°-90°	4838.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4838.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1946	1924	1931	1924	1921	185
15°	1872	1852	1861	1854	1851	529
25°	1736	1714	1724	1706	1704	799
35°	1529	1510	1516	1496	1494	955
45°	1237	1220	1215	1194	1190	949
55°	810	797	792	779	775	726
65°	435	432	437	434	434	439
75°	235	235	235	237	237	248
85°	60	63	67	67	67	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1935.6	1935.6	1935.6	1935.6	1935.6
2.5°	1950.6	1928.9	1935.6	1930.6	1918.9
5°	1945.6	1923.9	1930.6	1923.9	1920.6
7.5°	1933.9	1912.3	1918.9	1912.3	1910.6
10°	1917.3	1897.3	1903.9	1897.3	1893.9
12.5°	1898.9	1877.2	1885.6	1877.2	1873.9
15°	1872.2	1852.2	1860.6	1853.9	1850.6
17.5°	1845.6	1823.9	1832.2	1825.6	1820.6
20°	1812.2	1792.2	1800.6	1788.9	1787.2
22.5°	1775.5	1755.5	1763.9	1747.2	1747.2
25°	1735.5	1713.9	1723.9	1705.5	1703.9
27.5°	1688.9	1668.8	1677.2	1658.8	1657.2
30°	1640.5	1620.5	1628.8	1608.8	1605.5
32.5°	1585.5	1567.2	1573.8	1553.8	1552.1
35°	1528.8	1510.5	1515.5	1495.5	1493.8
37.5°	1465.5	1448.8	1452.1	1430.4	1428.8
40°	1397.1	1380.4	1382.1	1358.8	1357.1
42.5°	1322.1	1305.4	1303.7	1280.4	1278.7
45°	1237.0	1220.4	1215.4	1193.7	1190.4
47.5°	1143.7	1127.0	1117.0	1098.7	1097.0
50°	1040.3	1023.6	1015.3	1000.3	995.3
52.5°	928.6	911.9	905.3	891.9	886.9
55°	810.3	796.9	791.9	778.6	775.2
57.5°	696.9	686.9	685.2	671.9	670.2
60°	595.2	590.2	590.2	578.5	578.5
62.5°	508.5	505.2	508.5	501.8	500.2
65°	435.1	431.8	436.8	433.5	433.5
67.5°	373.4	373.4	376.8	375.1	375.1
70°	323.4	323.4	325.1	325.1	325.1
72.5°	278.4	276.8	281.8	281.8	280.1
75°	235.1	235.1	235.1	236.7	236.7
77.5°	191.7	191.7	193.4	193.4	191.7
80°	148.4	150.0	150.0	148.4	148.4
82.5°	105.0	106.7	106.7	106.7	105.0
85°	60.0	63.4	66.7	66.7	66.7
87.5°	21.7	28.3	33.3	33.3	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)