

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: P688595

Luminaire Tested: SQ4R-PR1-125D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688595
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-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4136.2 lumens
Efficiency: N/A
Efficacy: 83.6 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

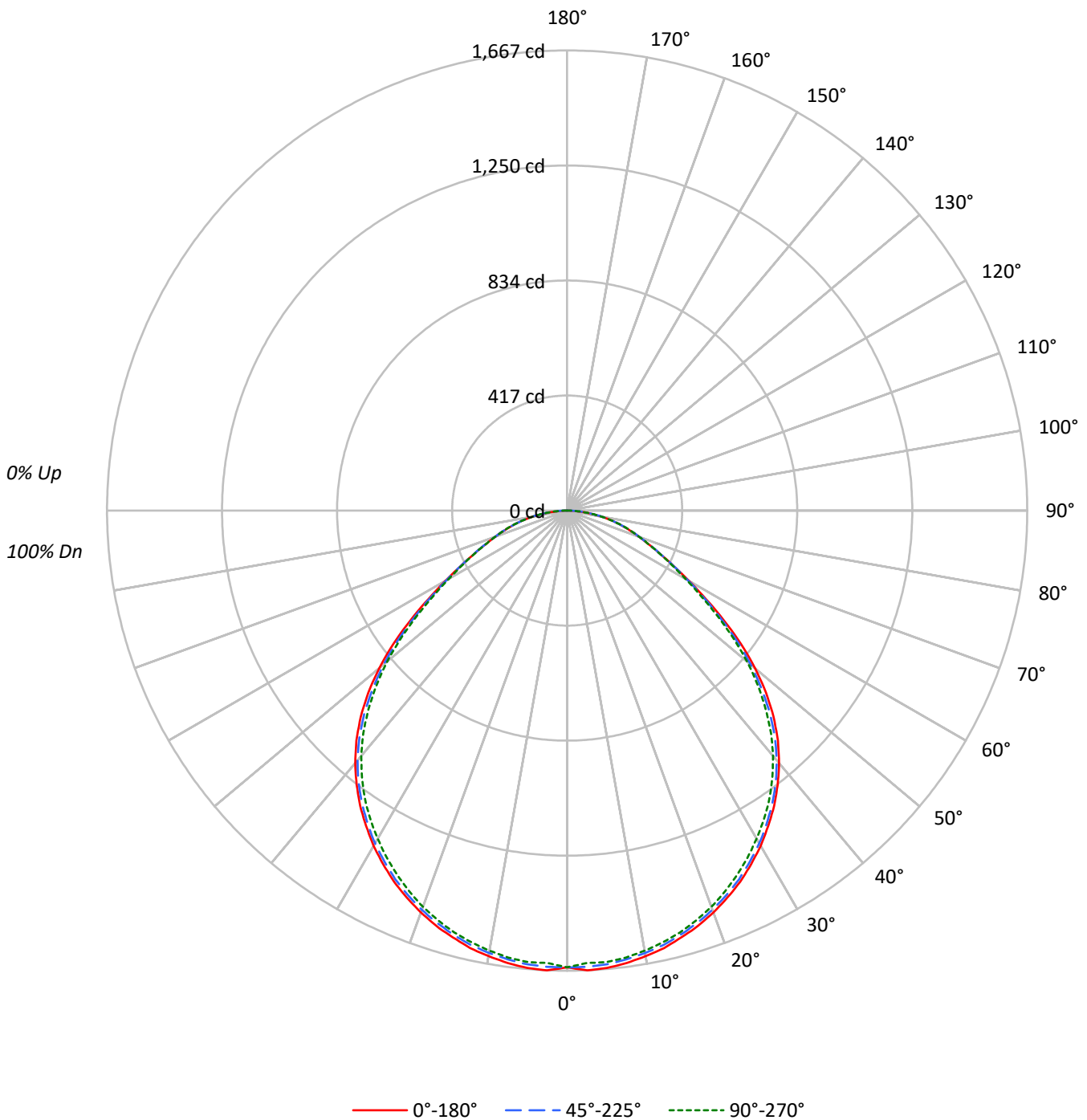
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	15928	15928	15928
5°	16072	15948	15866
10°	16021	15909	15826
15°	15951	15851	15766
20°	15871	15768	15652
25°	15759	15652	15471
30°	15589	15478	15255
35°	15359	15225	15007
40°	15008	14847	14578
45°	14397	14145	13853
50°	13318	12999	12743
55°	11625	11362	11123
60°	9797	9714	9521
65°	8472	8506	8440
70°	7783	7822	7822
75°	7473	7473	7529
80°	7030	7113	7030
85°	5667	6296	6296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.8
10°-20°	447.9	10.8
20°-30°	675.5	16.3
30°-40°	805.1	19.5
40°-50°	794.2	19.2
50°-60°	605.8	14.6
60°-70°	373.9	9.0
70°-80°	213.1	5.2
80°-90°	64.3	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°	1280.0	30.9
0°-40°	2085.0	50.4
0°-60°	3485.0	84.3
0°-90°	4136.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4136.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1663	1644	1650	1644	1642	158
15°	1600	1583	1590	1585	1582	452
25°	1484	1465	1474	1458	1456	683
35°	1307	1291	1295	1278	1277	816
45°	1057	1043	1039	1020	1018	811
55°	693	681	677	666	663	620
65°	372	369	373	370	370	375
75°	201	201	201	202	202	212
85°	51	54	57	57	57	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1667.3	1648.8	1654.5	1650.2	1640.3
5°	1663.1	1644.5	1650.2	1644.5	1641.7
7.5°	1653.1	1634.6	1640.3	1634.6	1633.1
10°	1638.8	1621.7	1627.4	1621.7	1618.9
12.5°	1623.2	1604.6	1611.8	1604.6	1601.8
15°	1600.4	1583.3	1590.4	1584.7	1581.8
17.5°	1577.6	1559.0	1566.2	1560.5	1556.2
20°	1549.1	1532.0	1539.1	1529.1	1527.7
22.5°	1517.7	1500.6	1507.7	1493.5	1493.5
25°	1483.5	1465.0	1473.5	1457.9	1456.4
27.5°	1443.6	1426.5	1433.6	1418.0	1416.5
30°	1402.3	1385.2	1392.3	1375.2	1372.3
32.5°	1355.2	1339.6	1345.3	1328.2	1326.7
35°	1306.8	1291.1	1295.4	1278.3	1276.9
37.5°	1252.6	1238.4	1241.2	1222.7	1221.3
40°	1194.2	1180.0	1181.4	1161.4	1160.0
42.5°	1130.1	1115.8	1114.4	1094.5	1093.0
45°	1057.4	1043.2	1038.9	1020.4	1017.5
47.5°	977.6	963.4	954.8	939.1	937.7
50°	889.2	875.0	867.9	855.0	850.8
52.5°	793.8	779.5	773.8	762.4	758.1
55°	692.6	681.2	676.9	665.5	662.7
57.5°	595.7	587.1	585.7	574.3	572.9
60°	508.8	504.5	504.5	494.5	494.5
62.5°	434.6	431.8	434.6	428.9	427.5
65°	371.9	369.1	373.4	370.5	370.5
67.5°	319.2	319.2	322.1	320.6	320.6
70°	276.5	276.5	277.9	277.9	277.9
72.5°	238.0	236.6	240.8	240.8	239.4
75°	200.9	200.9	200.9	202.4	202.4
77.5°	163.9	163.9	165.3	165.3	163.9
80°	126.8	128.3	128.3	126.8	126.8
82.5°	89.8	91.2	91.2	91.2	89.8
85°	51.3	54.2	57.0	57.0	57.0
87.5°	18.5	24.2	28.5	28.5	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)