

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: P688906

Luminaire Tested: SQ4R-PR1-100D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688906
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-PR1-100D-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3548.1 lumens
Efficiency: N/A
Efficacy: 76.8 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

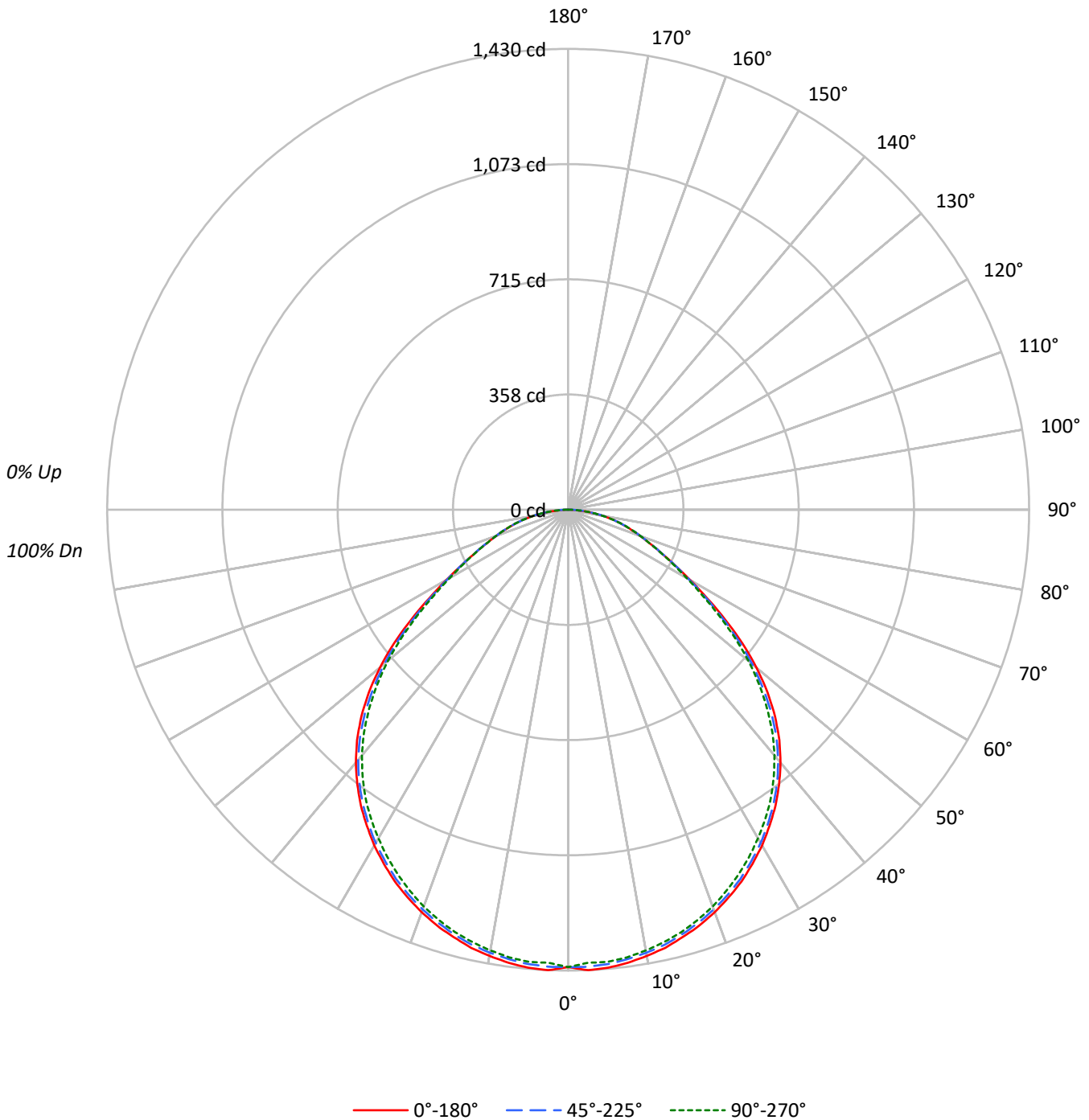
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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				
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°	13664	13664	13664
5°	13787	13681	13610
10°	13743	13647	13576
15°	13683	13598	13524
20°	13614	13526	13426
25°	13518	13427	13271
30°	13372	13277	13087
35°	13175	13060	12873
40°	12874	12736	12506
45°	12350	12134	11883
50°	11425	11151	10931
55°	9972	9747	9540
60°	8403	8332	8168
65°	7269	7297	7240
70°	6677	6711	6711
75°	6413	6413	6457
80°	6032	6099	6032
85°	4860	5402	5402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12350 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.8
10°-20°	384.2	10.8
20°-30°	579.5	16.3
30°-40°	690.6	19.5
40°-50°	681.3	19.2
50°-60°	519.7	14.6
60°-70°	320.7	9.0
70°-80°	182.8	5.2
80°-90°	55.1	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°	1098.0	30.9
0°-40°	1788.6	50.4
0°-60°	2989.5	84.3
0°-90°	3548.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3548.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1427	1411	1416	1411	1408	135
15°	1373	1358	1364	1359	1357	388
25°	1273	1257	1264	1251	1249	586
35°	1121	1108	1111	1096	1095	700
45°	907	895	891	875	873	696
55°	594	584	581	571	568	532
65°	319	317	320	318	318	322
75°	172	172	172	174	174	182
85°	44	46	49	49	49	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.3	1419.3	1419.3	1419.3	1419.3
2.5°	1430.3	1414.4	1419.3	1415.6	1407.0
5°	1426.6	1410.7	1415.6	1410.7	1408.3
7.5°	1418.0	1402.1	1407.0	1402.1	1400.9
10°	1405.8	1391.1	1396.0	1391.1	1388.7
12.5°	1392.4	1376.5	1382.6	1376.5	1374.0
15°	1372.8	1358.1	1364.3	1359.4	1356.9
17.5°	1353.3	1337.4	1343.5	1338.6	1334.9
20°	1328.8	1314.1	1320.2	1311.7	1310.5
22.5°	1301.9	1287.2	1293.4	1281.1	1281.1
25°	1272.6	1256.7	1264.0	1250.6	1249.3
27.5°	1238.3	1223.7	1229.8	1216.3	1215.1
30°	1202.9	1188.2	1194.3	1179.7	1177.2
32.5°	1162.5	1149.1	1154.0	1139.3	1138.1
35°	1121.0	1107.5	1111.2	1096.5	1095.3
37.5°	1074.5	1062.3	1064.8	1048.9	1047.6
40°	1024.4	1012.2	1013.4	996.3	995.1
42.5°	969.4	957.2	956.0	938.8	937.6
45°	907.1	894.8	891.2	875.3	872.8
47.5°	838.6	826.4	819.0	805.6	804.4
50°	762.8	750.6	744.5	733.5	729.8
52.5°	680.9	668.7	663.8	654.0	650.3
55°	594.1	584.3	580.7	570.9	568.4
57.5°	511.0	503.6	502.4	492.6	491.4
60°	436.4	432.7	432.7	424.2	424.2
62.5°	372.8	370.4	372.8	368.0	366.7
65°	319.1	316.6	320.3	317.8	317.8
67.5°	273.8	273.8	276.3	275.1	275.1
70°	237.2	237.2	238.4	238.4	238.4
72.5°	204.1	202.9	206.6	206.6	205.4
75°	172.4	172.4	172.4	173.6	173.6
77.5°	140.6	140.6	141.8	141.8	140.6
80°	108.8	110.0	110.0	108.8	108.8
82.5°	77.0	78.2	78.2	78.2	77.0
85°	44.0	46.5	48.9	48.9	48.9
87.5°	15.9	20.8	24.4	24.4	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)