

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: P688826

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688826
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-PP3-100D-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3518.7 lumens
Efficiency: N/A
Efficacy: 76.7 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

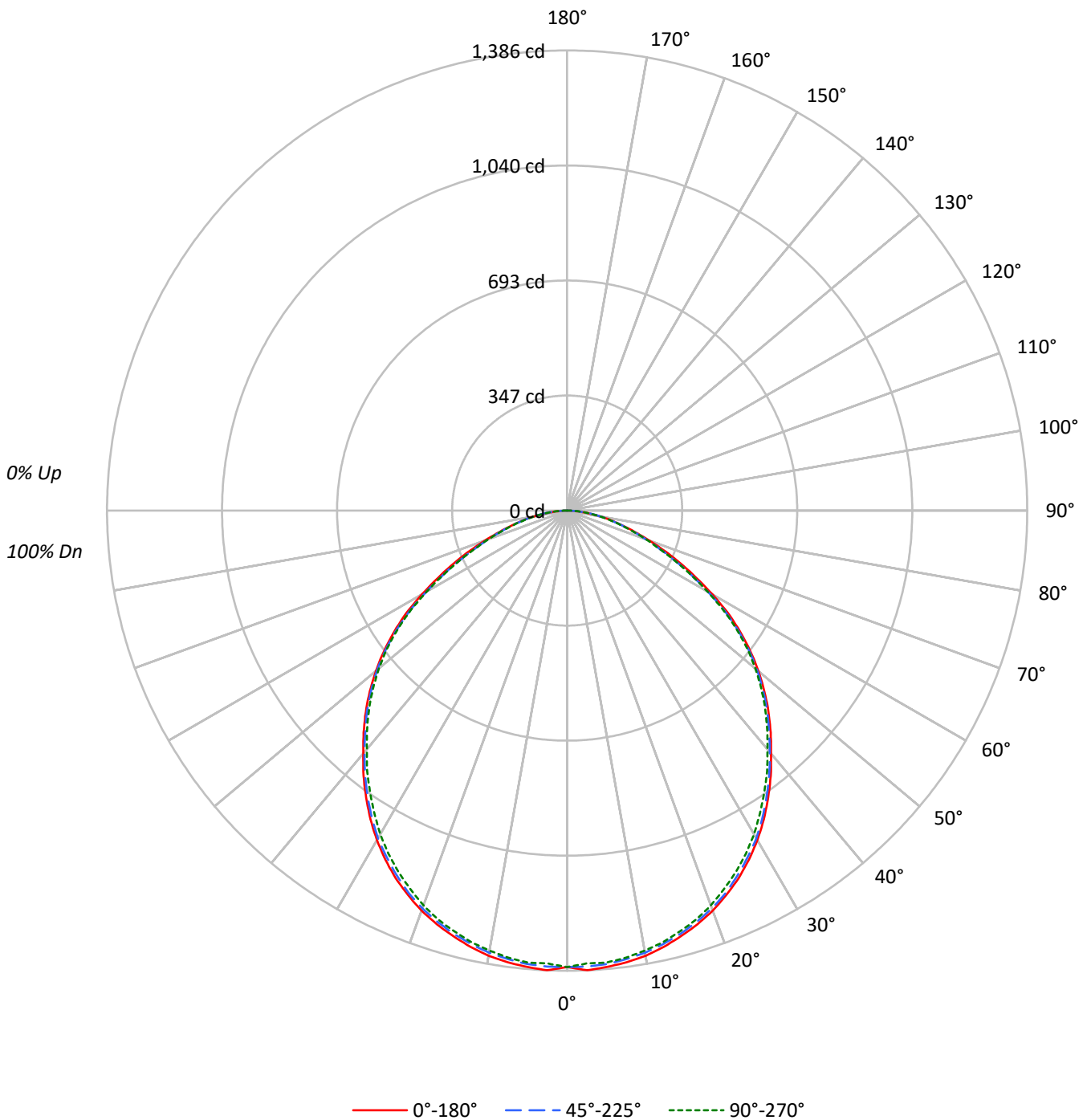
Input Watts (W): 45.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	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°	13236	13236	13236
5°	13334	13251	13205
10°	13311	13217	13157
15°	13223	13150	13079
20°	13135	13061	12962
25°	12979	12889	12761
30°	12739	12672	12511
35°	12405	12320	12165
40°	12008	11933	11797
45°	11680	11599	11484
50°	11262	11190	11080
55°	10678	10537	10457
60°	9722	9442	9396
65°	8563	8208	8180
70°	7395	7088	7088
75°	6364	6275	6186
80°	5611	5677	5544
85°	4396	4794	4794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.7
10°-20°	371.4	10.6
20°-30°	556.3	15.8
30°-40°	652.5	18.5
40°-50°	654.5	18.6
50°-60°	558.9	15.9
60°-70°	363.2	10.3
70°-80°	181.9	5.2
80°-90°	49.9	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°	1057.8	30.1
0°-40°	1710.3	48.6
0°-60°	2923.7	83.1
0°-90°	3518.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3518.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1380	1366	1371	1366	1366	131
15°	1327	1313	1319	1315	1312	374
25°	1222	1207	1213	1202	1201	562
35°	1056	1045	1048	1036	1035	660
45°	858	852	852	844	844	661
55°	636	634	628	624	623	566
65°	376	369	360	358	359	375
75°	171	171	169	168	166	185
85°	40	43	43	43	43	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.8	1374.8	1374.8	1374.8	1374.8
2.5°	1385.7	1371.2	1374.8	1372.4	1365.2
5°	1379.7	1366.4	1371.2	1366.4	1366.4
7.5°	1372.4	1358.0	1362.8	1358.0	1358.0
10°	1361.6	1347.1	1352.0	1347.1	1345.9
12.5°	1345.9	1331.5	1337.5	1331.5	1331.5
15°	1326.7	1313.4	1319.4	1314.6	1312.2
17.5°	1306.2	1291.7	1298.9	1292.9	1291.7
20°	1282.1	1267.6	1274.8	1265.2	1265.2
22.5°	1253.1	1238.7	1247.1	1233.9	1233.9
25°	1221.8	1207.4	1213.4	1202.5	1201.3
27.5°	1185.7	1171.2	1177.2	1165.2	1165.2
30°	1145.9	1132.7	1139.9	1126.6	1125.4
32.5°	1102.5	1090.5	1095.3	1082.0	1080.8
35°	1055.5	1044.7	1048.3	1036.3	1035.1
37.5°	1007.3	995.3	1000.1	989.3	989.3
40°	955.5	948.3	949.5	941.1	938.7
42.5°	907.3	898.9	900.1	891.7	891.7
45°	857.9	851.9	851.9	843.5	843.5
47.5°	806.1	801.3	800.1	792.9	792.9
50°	751.9	748.3	747.1	741.0	739.8
52.5°	695.3	694.1	689.2	684.4	684.4
55°	636.2	633.8	627.8	624.2	623.0
57.5°	573.6	568.7	562.7	556.7	557.9
60°	504.9	500.1	490.4	488.0	488.0
62.5°	438.6	432.6	422.9	419.3	421.7
65°	375.9	368.7	360.3	357.9	359.1
67.5°	318.1	310.9	301.2	301.2	300.0
70°	262.7	259.1	251.8	251.8	251.8
72.5°	213.3	212.1	207.3	207.3	206.0
75°	171.1	171.1	168.7	167.5	166.3
77.5°	135.0	135.0	133.7	132.5	130.1
80°	101.2	103.6	102.4	101.2	100.0
82.5°	69.9	72.3	72.3	69.9	69.9
85°	39.8	43.4	43.4	43.4	43.4
87.5°	13.3	18.1	19.3	19.3	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)