

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: P688743

Luminaire Tested: SQ4R-PH1-075D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PH1-075D-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2852.8 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

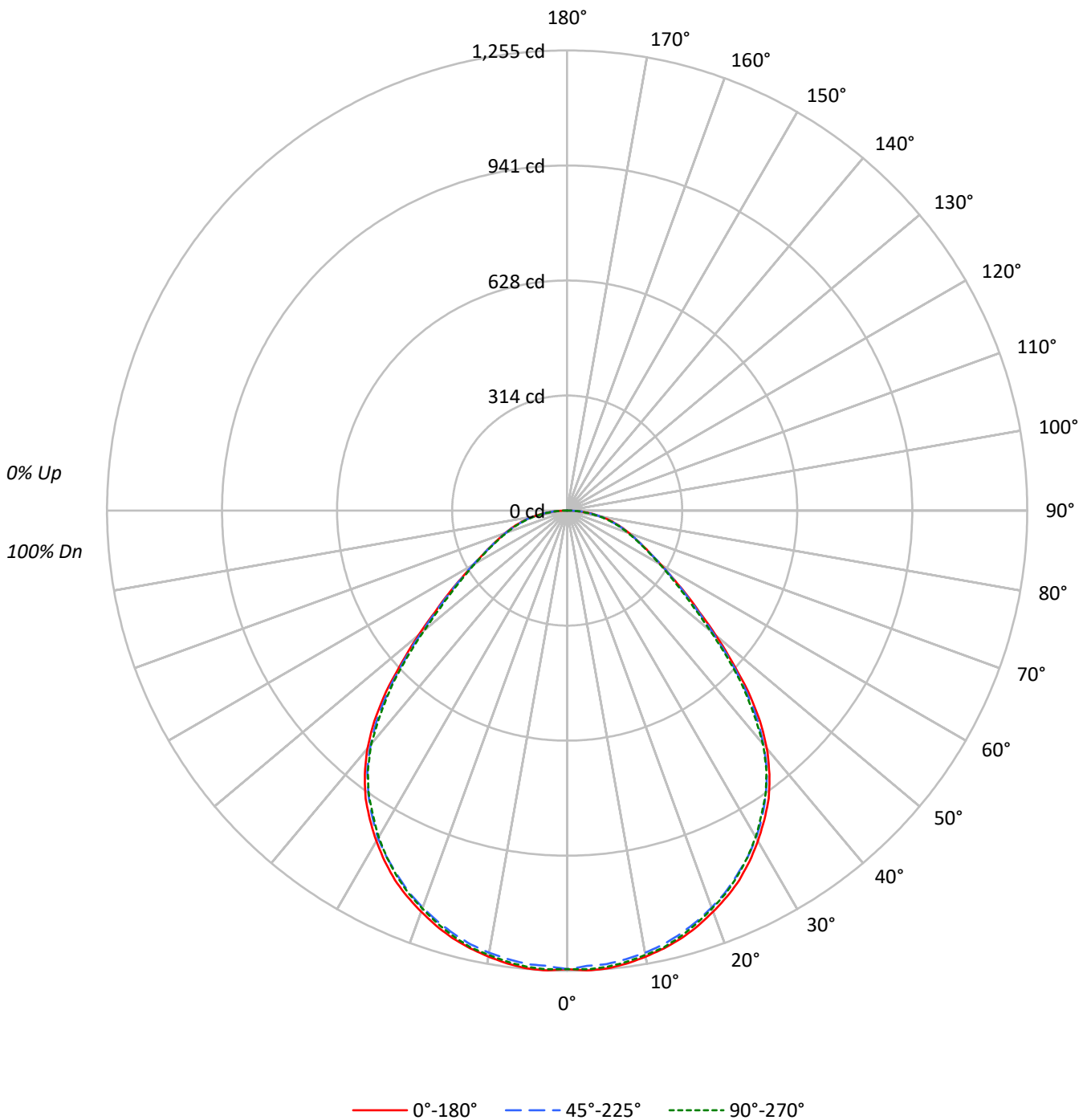
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12040	12040	12040
5°	12116	11997	12071
10°	12075	11970	12030
15°	12034	11912	11972
20°	11927	11800	11832
25°	11809	11644	11677
30°	11569	11466	11431
35°	11269	11105	11088
40°	10654	10479	10440
45°	9502	9313	9208
50°	7932	7770	7609
55°	6608	6531	6375
60°	5678	5707	5590
65°	5205	5171	5100
70°	5041	4999	4912
75°	5111	4996	4880
80°	5134	5051	4879
85°	4949	4949	4606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9502 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	4.2
10°-20°	338.9	11.9
20°-30°	507.7	17.8
30°-40°	590.7	20.7
40°-50°	525.4	18.4
50°-60°	352.8	12.4
60°-70°	228.0	8.0
70°-80°	142.1	5.0
80°-90°	48.7	1.7
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°	965.1	33.8
0°-40°	1555.8	54.5
0°-60°	2433.9	85.3
0°-90°	2852.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1254	1251	1241	1251	1249	119
15°	1207	1204	1195	1203	1201	340
25°	1112	1107	1096	1102	1099	511
35°	959	954	945	945	943	596
45°	698	695	684	675	676	533
55°	394	394	389	383	380	357
65°	228	230	227	225	224	229
75°	137	136	134	134	131	145
85°	45	46	45	43	42	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.6	1250.6	1250.6	1250.6	1250.6
2.5°	1255.3	1252.2	1242.9	1253.7	1252.2
5°	1253.7	1250.6	1241.4	1250.6	1249.1
7.5°	1246.0	1244.5	1233.7	1244.5	1241.4
10°	1235.2	1235.2	1224.4	1233.7	1230.6
12.5°	1222.8	1221.3	1212.0	1221.3	1219.8
15°	1207.4	1204.3	1195.1	1202.8	1201.2
17.5°	1187.3	1185.8	1175.0	1182.7	1179.6
20°	1164.2	1161.1	1151.8	1158.0	1154.9
22.5°	1139.5	1136.4	1127.1	1131.7	1130.2
25°	1111.7	1107.0	1096.2	1102.4	1099.3
27.5°	1077.7	1076.2	1065.4	1068.4	1065.4
30°	1040.7	1039.1	1031.4	1031.4	1028.3
32.5°	1000.5	1002.1	989.7	991.2	985.1
35°	958.8	954.2	944.9	944.9	943.4
37.5°	906.3	903.2	895.5	894.0	892.4
40°	847.7	844.6	833.8	830.7	830.7
42.5°	778.2	775.1	764.3	759.6	753.5
45°	697.9	694.8	684.0	674.7	676.3
47.5°	608.3	611.4	600.6	592.9	591.3
50°	529.6	528.0	518.8	514.1	508.0
52.5°	453.9	455.5	447.8	444.7	436.9
55°	393.7	393.7	389.1	382.9	379.8
57.5°	339.7	342.8	338.1	335.0	332.0
60°	294.9	296.4	296.4	290.3	290.3
62.5°	257.8	259.4	257.8	254.8	254.8
65°	228.5	230.1	227.0	225.4	223.9
67.5°	202.3	203.8	202.3	200.7	197.6
70°	179.1	179.1	177.6	177.6	174.5
72.5°	159.0	157.5	155.9	155.9	154.4
75°	137.4	135.9	134.3	134.3	131.2
77.5°	115.8	114.3	114.3	111.2	109.6
80°	92.6	92.6	91.1	89.6	88.0
82.5°	71.0	69.5	67.9	66.4	64.8
85°	44.8	46.3	44.8	43.2	41.7
87.5°	20.1	21.6	21.6	21.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)