

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: P688737

Luminaire Tested: SQ4R-PH1-075D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688737
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-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2770.2 lumens
Efficiency: N/A
Efficacy: 84.5 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

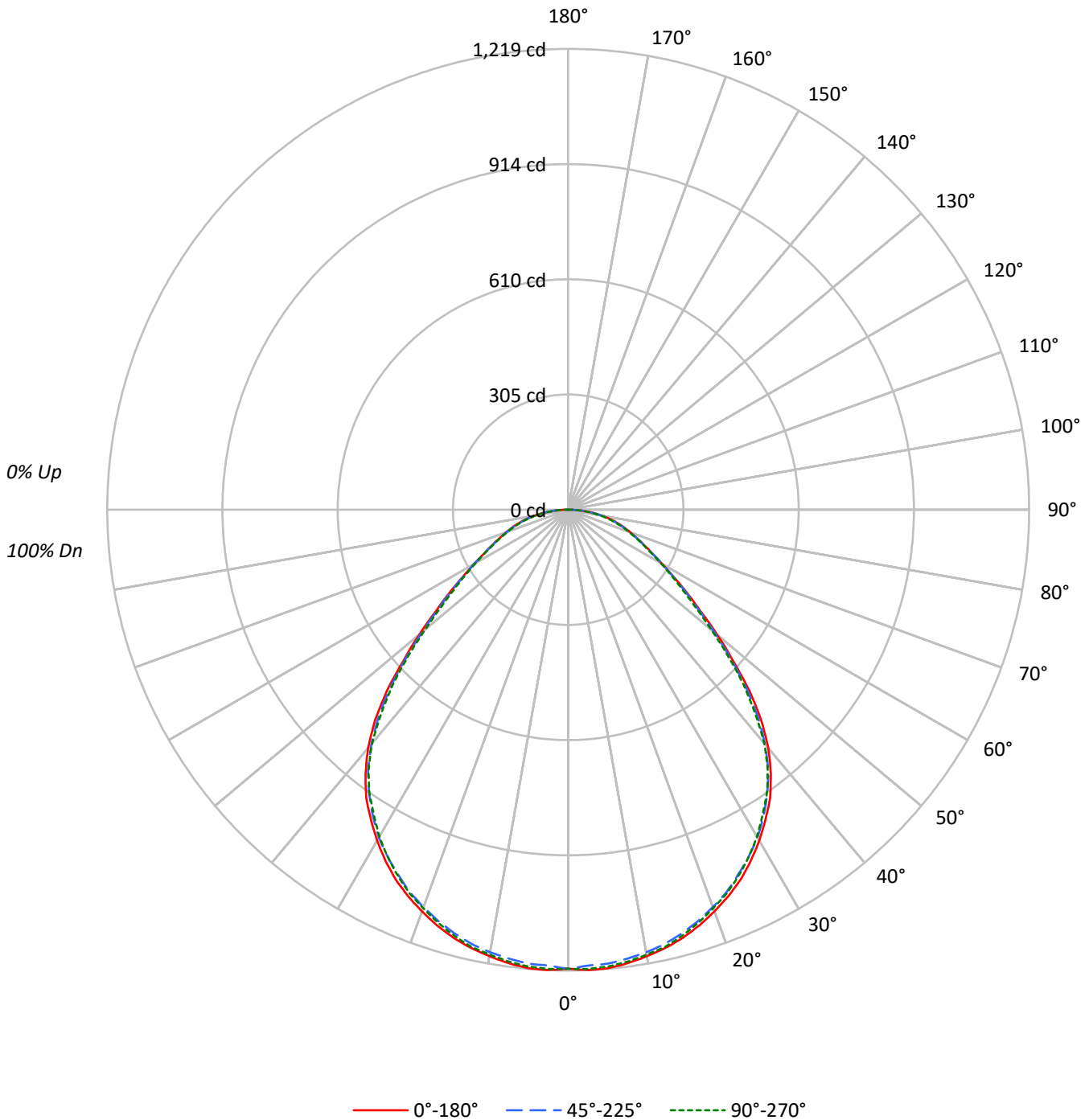
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11691	11691	11691
5°	11765	11649	11722
10°	11725	11623	11681
15°	11685	11566	11625
20°	11582	11459	11490
25°	11467	11308	11340
30°	11233	11133	11100
35°	10943	10784	10767
40°	10344	10175	10137
45°	9227	9043	8941
50°	7703	7546	7388
55°	6417	6341	6190
60°	5515	5543	5428
65°	5055	5021	4952
70°	4895	4853	4768
75°	4962	4851	4739
80°	4990	4907	4740
85°	4805	4805	4474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9227 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	4.2
10°-20°	329.1	11.9
20°-30°	493.0	17.8
30°-40°	573.6	20.7
40°-50°	510.1	18.4
50°-60°	342.5	12.4
60°-70°	221.4	8.0
70°-80°	138.0	5.0
80°-90°	47.3	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°	937.2	33.8
0°-40°	1510.8	54.5
0°-60°	2363.4	85.3
0°-90°	2770.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2770.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1217	1214	1205	1214	1213	116
15°	1172	1169	1160	1168	1166	331
25°	1080	1075	1064	1070	1068	496
35°	931	927	918	918	916	579
45°	678	675	664	655	657	518
55°	382	382	378	372	369	346
65°	222	223	220	219	217	222
75°	133	132	130	130	127	140
85°	44	45	44	42	40	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1214.4	1214.4	1214.4	1214.4	1214.4
2.5°	1218.9	1215.9	1206.9	1217.4	1215.9
5°	1217.4	1214.4	1205.4	1214.4	1212.9
7.5°	1209.9	1208.4	1197.9	1208.4	1205.4
10°	1199.4	1199.4	1188.9	1197.9	1194.9
12.5°	1187.4	1185.9	1176.9	1185.9	1184.4
15°	1172.4	1169.4	1160.4	1167.9	1166.4
17.5°	1153.0	1151.5	1141.0	1148.5	1145.5
20°	1130.5	1127.5	1118.5	1124.5	1121.5
22.5°	1106.5	1103.5	1094.5	1099.0	1097.5
25°	1079.5	1075.0	1064.5	1070.5	1067.5
27.5°	1046.5	1045.0	1034.5	1037.5	1034.5
30°	1010.5	1009.0	1001.5	1001.5	998.5
32.5°	971.5	973.0	961.0	962.5	956.5
35°	931.1	926.6	917.6	917.6	916.1
37.5°	880.1	877.1	869.6	868.1	866.6
40°	823.1	820.1	809.6	806.6	806.6
42.5°	755.6	752.6	742.1	737.6	731.7
45°	677.7	674.7	664.2	655.2	656.7
47.5°	590.7	593.7	583.2	575.7	574.2
50°	514.3	512.8	503.8	499.3	493.3
52.5°	440.8	442.3	434.8	431.8	424.3
55°	382.3	382.3	377.8	371.8	368.8
57.5°	329.8	332.8	328.3	325.3	322.3
60°	286.4	287.9	287.9	281.9	281.9
62.5°	250.4	251.9	250.4	247.4	247.4
65°	221.9	223.4	220.4	218.9	217.4
67.5°	196.4	197.9	196.4	194.9	191.9
70°	173.9	173.9	172.4	172.4	169.4
72.5°	154.4	152.9	151.4	151.4	149.9
75°	133.4	131.9	130.4	130.4	127.4
77.5°	112.4	110.9	110.9	107.9	106.4
80°	90.0	90.0	88.5	87.0	85.5
82.5°	69.0	67.5	66.0	64.5	63.0
85°	43.5	45.0	43.5	42.0	40.5
87.5°	19.5	21.0	21.0	21.0	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)