

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: P688976

Luminaire Tested: SQ4R-PW1-075D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-075D-92765-1-UNV-STD-W-4_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3137.3 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

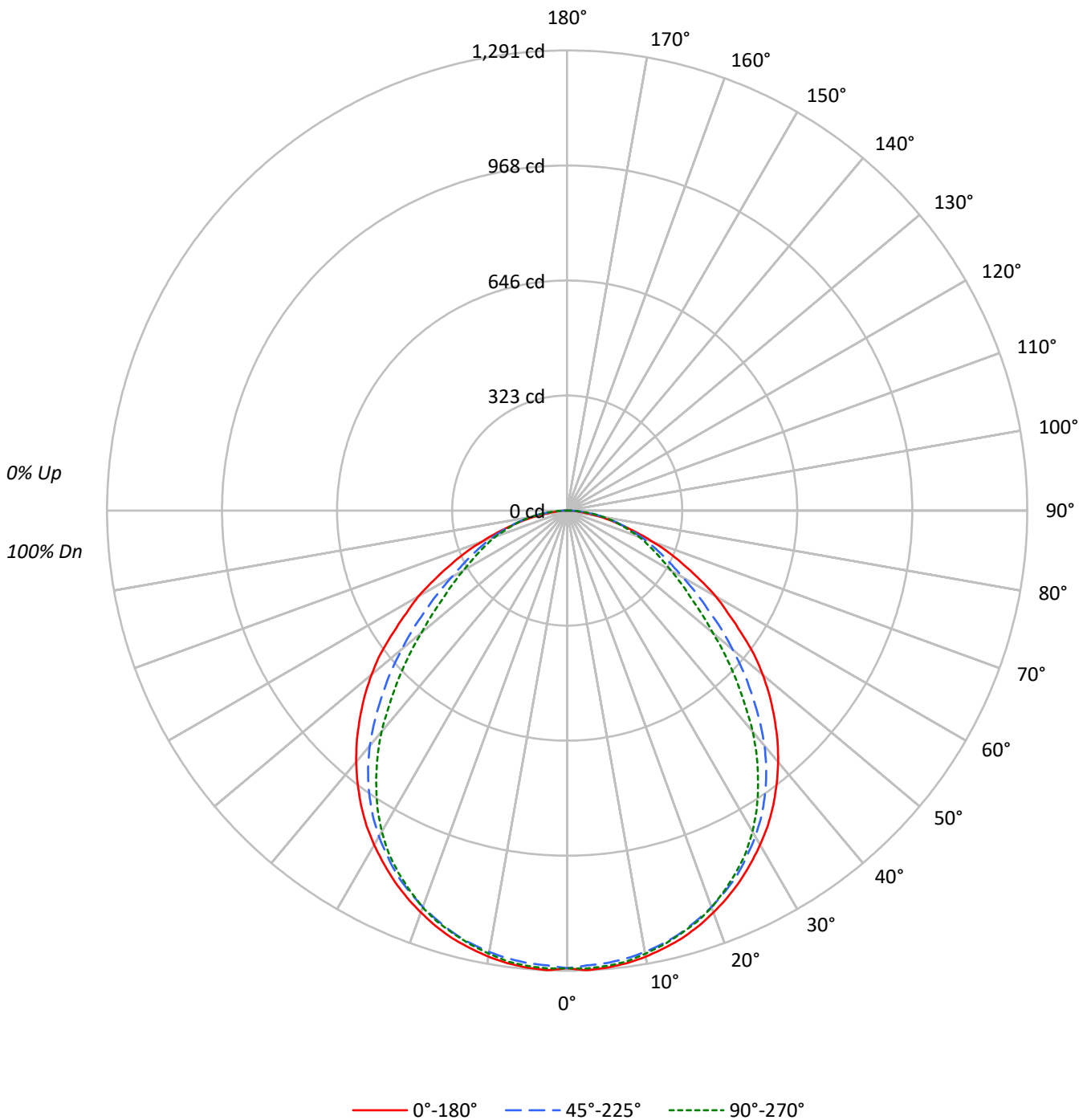
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41				41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12362	12362	12362
5°	12441	12313	12393
10°	12423	12294	12343
15°	12387	12238	12255
20°	12293	12124	12141
25°	12184	11992	11904
30°	12036	11743	11559
35°	11852	11386	10978
40°	11574	10827	10185
45°	11190	9999	9123
50°	10728	9072	7984
55°	9974	8062	7065
60°	9279	7213	6483
65°	8233	6693	6128
70°	7155	6364	6041
75°	5892	6015	5769
80°	4668	5672	5672
85°	3468	5103	5291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11190 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.9
10°-20°	348.0	11.1
20°-30°	521.2	16.6
30°-40°	605.6	19.3
40°-50°	571.4	18.2
50°-60°	445.8	14.2
60°-70°	302.6	9.6
70°-80°	170.4	5.4
80°-90°	50.6	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°	991.0	31.6
0°-40°	1596.6	50.9
0°-60°	2613.7	83.3
0°-90°	3137.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1287	1284	1274	1284	1282	122
15°	1243	1238	1228	1234	1230	350
25°	1147	1142	1129	1126	1121	528
35°	1008	998	969	947	934	630
45°	822	797	734	688	670	634
55°	594	560	480	434	421	534
65°	361	328	294	276	269	361
75°	158	165	162	155	155	172
85°	31	45	46	46	48	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.0	1284.0	1284.0	1284.0	1284.0
2.5°	1290.6	1287.3	1277.4	1287.3	1285.7
5°	1287.3	1284.0	1274.1	1284.0	1282.4
7.5°	1280.7	1279.1	1267.5	1277.4	1275.8
10°	1270.8	1269.2	1257.6	1265.9	1262.6
12.5°	1257.6	1256.0	1244.4	1251.0	1247.7
15°	1242.8	1237.8	1227.9	1234.5	1229.6
17.5°	1223.0	1218.0	1206.5	1211.4	1209.8
20°	1199.9	1194.9	1183.4	1188.3	1185.0
22.5°	1175.1	1170.2	1156.9	1158.6	1153.6
25°	1147.0	1142.1	1128.9	1125.6	1120.6
27.5°	1115.7	1112.4	1092.6	1089.3	1084.3
30°	1082.7	1077.7	1056.3	1049.7	1039.8
32.5°	1048.0	1038.1	1015.0	1001.8	990.3
35°	1008.4	998.5	968.8	947.3	934.1
37.5°	965.5	950.6	917.6	887.9	874.7
40°	920.9	904.4	861.5	821.9	810.4
42.5°	873.1	853.3	798.8	757.5	737.7
45°	821.9	797.2	734.4	688.2	670.1
47.5°	770.7	739.4	671.7	622.2	602.4
50°	716.3	678.3	605.7	552.9	533.1
52.5°	660.2	618.9	544.6	490.2	475.3
55°	594.2	559.5	480.3	434.1	420.9
57.5°	534.7	496.8	427.5	387.9	377.9
60°	481.9	435.7	374.6	344.9	336.7
62.5°	420.9	379.6	331.7	308.6	300.4
65°	361.4	328.4	293.8	275.6	269.0
67.5°	310.3	282.2	259.1	244.3	241.0
70°	254.2	239.3	226.1	214.6	214.6
72.5°	206.3	201.4	193.1	186.5	181.5
75°	158.4	165.0	161.7	155.1	155.1
77.5°	120.5	130.4	132.0	128.7	130.4
80°	84.2	99.0	102.3	100.7	102.3
82.5°	52.8	71.0	74.3	74.3	75.9
85°	31.4	44.6	46.2	46.2	47.9
87.5°	13.2	21.5	23.1	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)