

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: P688972

Luminaire Tested: SQ4R-PW1-075D-92765-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688972
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_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2886.1 lumens
Efficiency: N/A
Efficacy: 88.0 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

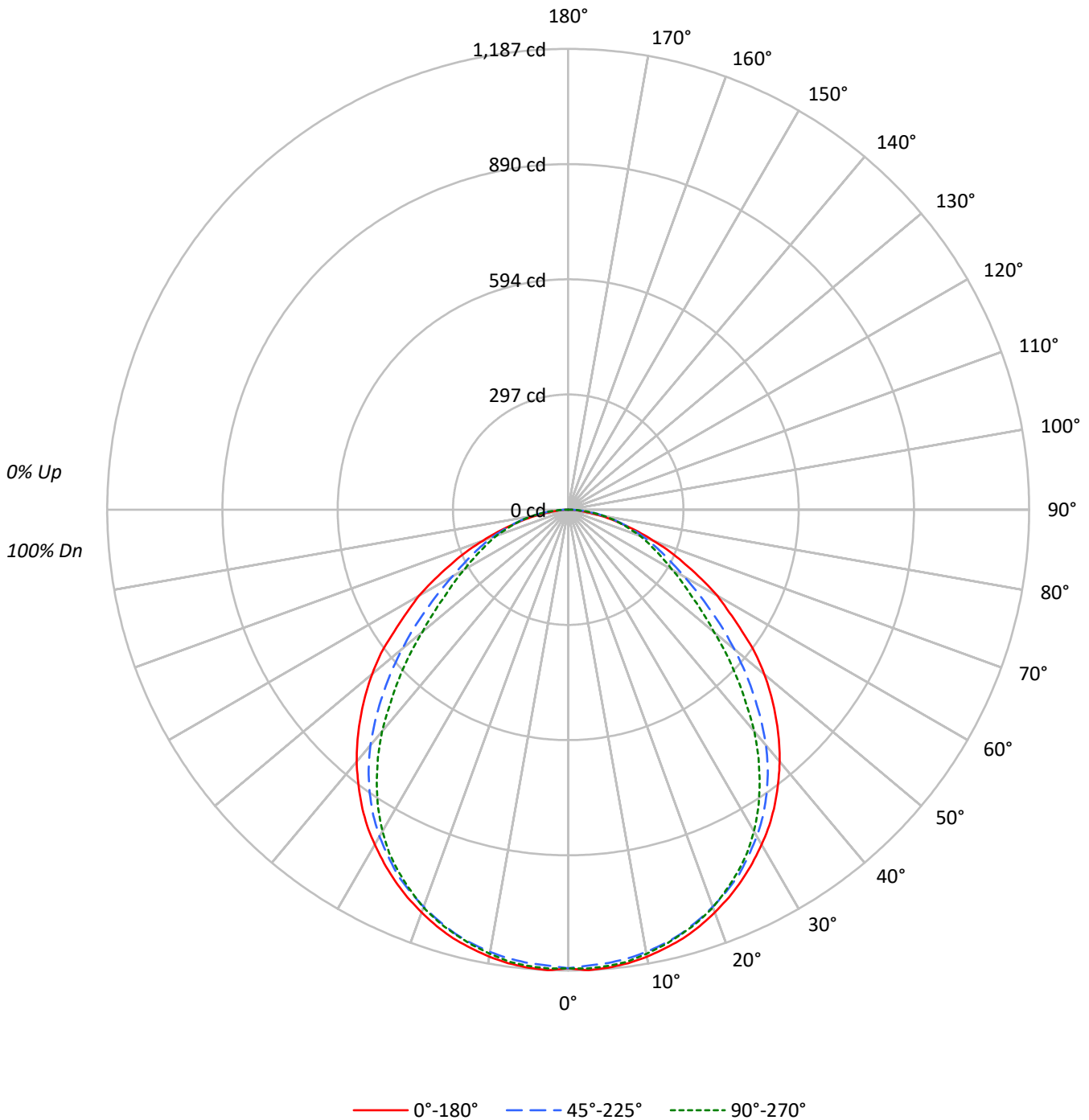
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11372	11372	11372
5°	11445	11327	11401
10°	11429	11310	11355
15°	11395	11259	11274
20°	11309	11153	11168
25°	11209	11032	10951
30°	11072	10802	10633
35°	10903	10474	10100
40°	10647	9961	9369
45°	10294	9198	8392
50°	9869	8345	7345
55°	9175	7416	6499
60°	8536	6637	5963
65°	7574	6157	5638
70°	6581	5855	5557
75°	5423	5535	5308
80°	4291	5217	5217
85°	3181	4695	4860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.9
10°-20°	320.1	11.1
20°-30°	479.5	16.6
30°-40°	557.1	19.3
40°-50°	525.6	18.2
50°-60°	410.1	14.2
60°-70°	278.4	9.6
70°-80°	156.8	5.4
80°-90°	46.5	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°	911.7	31.6
0°-40°	1468.8	50.9
0°-60°	2404.4	83.3
0°-90°	2886.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1181	1172	1181	1180	113
15°	1143	1139	1130	1136	1131	322
25°	1055	1051	1038	1036	1031	486
35°	928	919	891	872	859	580
45°	756	733	676	633	616	583
55°	547	515	442	399	387	491
65°	332	302	270	254	248	332
75°	146	152	149	143	143	159
85°	29	41	42	42	44	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.2	1181.2	1181.2	1181.2	1181.2
2.5°	1187.3	1184.3	1175.2	1184.3	1182.8
5°	1184.3	1181.2	1172.1	1181.2	1179.7
7.5°	1178.2	1176.7	1166.1	1175.2	1173.7
10°	1169.1	1167.6	1156.9	1164.5	1161.5
12.5°	1156.9	1155.4	1144.8	1150.9	1147.8
15°	1143.3	1138.7	1129.6	1135.7	1131.1
17.5°	1125.1	1120.5	1109.9	1114.4	1112.9
20°	1103.8	1099.3	1088.6	1093.2	1090.1
22.5°	1081.0	1076.5	1064.3	1065.9	1061.3
25°	1055.2	1050.7	1038.5	1035.5	1030.9
27.5°	1026.4	1023.3	1005.1	1002.1	997.5
30°	996.0	991.5	971.7	965.6	956.5
32.5°	964.1	955.0	933.8	921.6	911.0
35°	927.7	918.6	891.2	871.5	859.4
37.5°	888.2	874.5	844.2	816.8	804.7
40°	847.2	832.0	792.6	756.1	745.5
42.5°	803.2	785.0	734.9	696.9	678.7
45°	756.1	733.3	675.6	633.1	616.4
47.5°	709.0	680.2	618.0	572.4	554.2
50°	658.9	624.0	557.2	508.6	490.4
52.5°	607.3	569.4	501.0	450.9	437.3
55°	546.6	514.7	441.8	399.3	387.2
57.5°	491.9	457.0	393.2	356.8	347.7
60°	443.3	400.8	344.7	317.3	309.7
62.5°	387.2	349.2	305.2	283.9	276.3
65°	332.5	302.1	270.3	253.6	247.5
67.5°	285.4	259.6	238.4	224.7	221.7
70°	233.8	220.2	208.0	197.4	197.4
72.5°	189.8	185.2	177.6	171.6	167.0
75°	145.8	151.8	148.8	142.7	142.7
77.5°	110.8	119.9	121.5	118.4	119.9
80°	77.4	91.1	94.1	92.6	94.1
82.5°	48.6	65.3	68.3	68.3	69.8
85°	28.8	41.0	42.5	42.5	44.0
87.5°	12.1	19.7	21.3	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)