

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: P688580

Luminaire Tested: SQ4R-PR1-075D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-075D-840-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2971.4 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

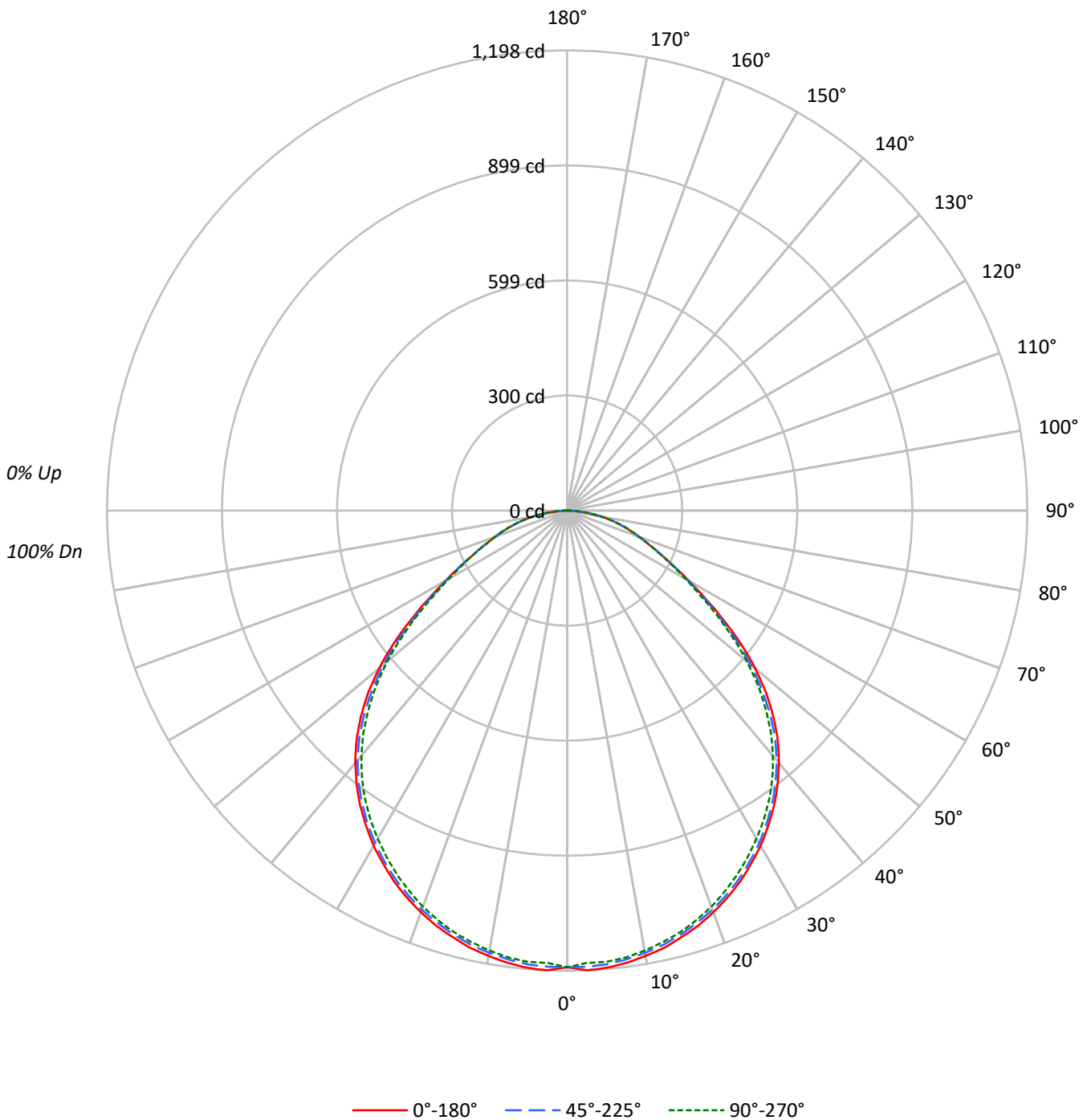
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11443	11443	11443
5°	11546	11457	11398
10°	11509	11429	11369
15°	11459	11387	11326
20°	11401	11328	11244
25°	11321	11245	11114
30°	11199	11119	10960
35°	11034	10937	10781
40°	10782	10666	10473
45°	10342	10161	9953
50°	9568	9338	9154
55°	8352	8162	7991
60°	7038	6978	6839
65°	6087	6110	6064
70°	5590	5618	5618
75°	5371	5371	5408
80°	5051	5106	5051
85°	4076	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10342 cd/sqm

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CATALOG NUMBER: SQ4R-PR1-075D-840-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.8
10°-20°	321.8	10.8
20°-30°	485.3	16.3
30°-40°	578.4	19.5
40°-50°	570.5	19.2
50°-60°	435.2	14.6
60°-70°	268.6	9.0
70°-80°	153.1	5.2
80°-90°	46.2	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°	919.5	30.9
0°-40°	1497.9	50.4
0°-60°	2503.6	84.3
0°-90°	2971.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2971.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1195	1181	1186	1181	1179	113
15°	1150	1137	1142	1138	1136	325
25°	1066	1052	1059	1047	1046	491
35°	939	928	931	918	917	586
45°	760	749	746	733	731	583
55°	498	489	486	478	476	446
65°	267	265	268	266	266	270
75°	144	144	144	145	145	152
85°	37	39	41	41	41	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.6	1188.6	1188.6	1188.6	1188.6
2.5°	1197.8	1184.5	1188.6	1185.5	1178.4
5°	1194.7	1181.4	1185.5	1181.4	1179.4
7.5°	1187.6	1174.3	1178.4	1174.3	1173.2
10°	1177.3	1165.0	1169.1	1165.0	1163.0
12.5°	1166.1	1152.8	1157.9	1152.8	1150.7
15°	1149.7	1137.4	1142.5	1138.4	1136.4
17.5°	1133.3	1120.0	1125.1	1121.0	1118.0
20°	1112.8	1100.5	1105.7	1098.5	1097.5
22.5°	1090.3	1078.0	1083.1	1072.9	1072.9
25°	1065.7	1052.4	1058.6	1047.3	1046.3
27.5°	1037.1	1024.8	1029.9	1018.6	1017.6
30°	1007.4	995.1	1000.2	987.9	985.9
32.5°	973.6	962.3	966.4	954.2	953.1
35°	938.8	927.5	930.6	918.3	917.3
37.5°	899.9	889.7	891.7	878.4	877.4
40°	857.9	847.7	848.7	834.4	833.3
42.5°	811.8	801.6	800.6	786.3	785.2
45°	759.6	749.4	746.3	733.0	731.0
47.5°	702.3	692.1	685.9	674.7	673.6
50°	638.8	628.6	623.5	614.3	611.2
52.5°	570.2	560.0	555.9	547.7	544.6
55°	497.6	489.4	486.3	478.1	476.1
57.5°	427.9	421.8	420.8	412.6	411.6
60°	365.5	362.4	362.4	355.2	355.2
62.5°	312.2	310.2	312.2	308.2	307.1
65°	267.2	265.2	268.2	266.2	266.2
67.5°	229.3	229.3	231.4	230.3	230.3
70°	198.6	198.6	199.6	199.6	199.6
72.5°	171.0	169.9	173.0	173.0	172.0
75°	144.4	144.4	144.4	145.4	145.4
77.5°	117.7	117.7	118.8	118.8	117.7
80°	91.1	92.1	92.1	91.1	91.1
82.5°	64.5	65.5	65.5	65.5	64.5
85°	36.9	38.9	41.0	41.0	41.0
87.5°	13.3	17.4	20.5	20.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)