

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: P688544

Luminaire Tested: SQ4R-PP3-075D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-075D-840-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 3004.3 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

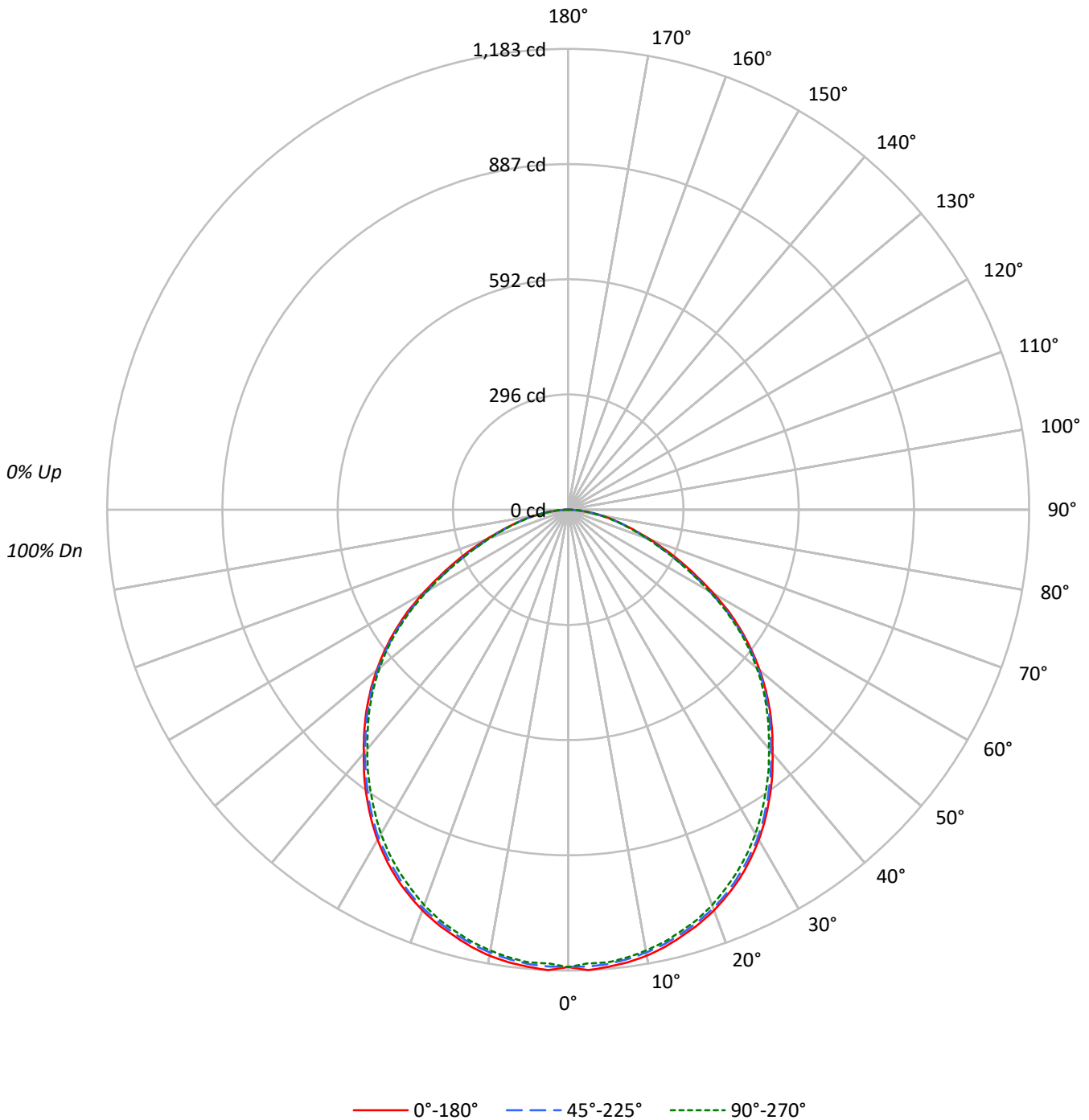
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11301	11301	11301
5°	11384	11315	11274
10°	11364	11284	11234
15°	11290	11228	11167
20°	11214	11152	11067
25°	11081	11005	10896
30°	10877	10819	10682
35°	10592	10519	10386
40°	10253	10189	10072
45°	9973	9904	9806
50°	9616	9554	9461
55°	9117	8997	8928
60°	8301	8062	8023
65°	7312	7007	6984
70°	6314	6052	6052
75°	5435	5356	5282
80°	4790	4846	4735
85°	3756	4087	4087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9973 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.7
10°-20°	317.1	10.6
20°-30°	475.0	15.8
30°-40°	557.1	18.5
40°-50°	558.8	18.6
50°-60°	477.2	15.9
60°-70°	310.1	10.3
70°-80°	155.3	5.2
80°-90°	42.6	1.4
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°	903.2	30.1
0°-40°	1460.3	48.6
0°-60°	2496.3	83.1
0°-90°	3004.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1178	1167	1171	1167	1167	112
15°	1133	1121	1126	1122	1120	320
25°	1043	1031	1036	1027	1026	480
35°	901	892	895	885	884	563
45°	732	727	727	720	720	564
55°	543	541	536	533	532	483
65°	321	315	308	306	307	320
75°	146	146	144	143	142	158
85°	34	37	37	37	37	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.8	1173.8	1173.8	1173.8	1173.8
2.5°	1183.1	1170.8	1173.8	1171.8	1165.6
5°	1178.0	1166.6	1170.8	1166.6	1166.6
7.5°	1171.8	1159.4	1163.6	1159.4	1159.4
10°	1162.5	1150.2	1154.3	1150.2	1149.2
12.5°	1149.2	1136.8	1142.0	1136.8	1136.8
15°	1132.7	1121.4	1126.5	1122.4	1120.4
17.5°	1115.2	1102.9	1109.0	1103.9	1102.9
20°	1094.6	1082.3	1088.5	1080.2	1080.2
22.5°	1069.9	1057.6	1064.8	1053.5	1053.5
25°	1043.2	1030.8	1036.0	1026.7	1025.7
27.5°	1012.3	1000.0	1005.1	994.8	994.8
30°	978.4	967.1	973.2	961.9	960.9
32.5°	941.3	931.1	935.2	923.9	922.8
35°	901.2	892.0	895.0	884.8	883.7
37.5°	860.1	849.8	853.9	844.6	844.6
40°	815.8	809.7	810.7	803.5	801.4
42.5°	774.7	767.5	768.5	761.3	761.3
45°	732.5	727.4	727.4	720.2	720.2
47.5°	688.3	684.1	683.1	676.9	676.9
50°	642.0	638.9	637.9	632.7	631.7
52.5°	593.6	592.6	588.5	584.4	584.4
55°	543.2	541.1	536.0	532.9	531.9
57.5°	489.7	485.6	480.4	475.3	476.3
60°	431.1	426.9	418.7	416.7	416.7
62.5°	374.5	369.3	361.1	358.0	360.1
65°	321.0	314.8	307.6	305.6	306.6
67.5°	271.6	265.4	257.2	257.2	256.2
70°	224.3	221.2	215.0	215.0	215.0
72.5°	182.1	181.1	177.0	177.0	175.9
75°	146.1	146.1	144.0	143.0	142.0
77.5°	115.2	115.2	114.2	113.2	111.1
80°	86.4	88.5	87.4	86.4	85.4
82.5°	59.7	61.7	61.7	59.7	59.7
85°	34.0	37.0	37.0	37.0	37.0
87.5°	11.3	15.4	16.5	16.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)