

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: P688821

Luminaire Tested: SQ4R-PP3-075D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688821
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-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.9 lumens
Efficiency: N/A
Efficacy: 88.5 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

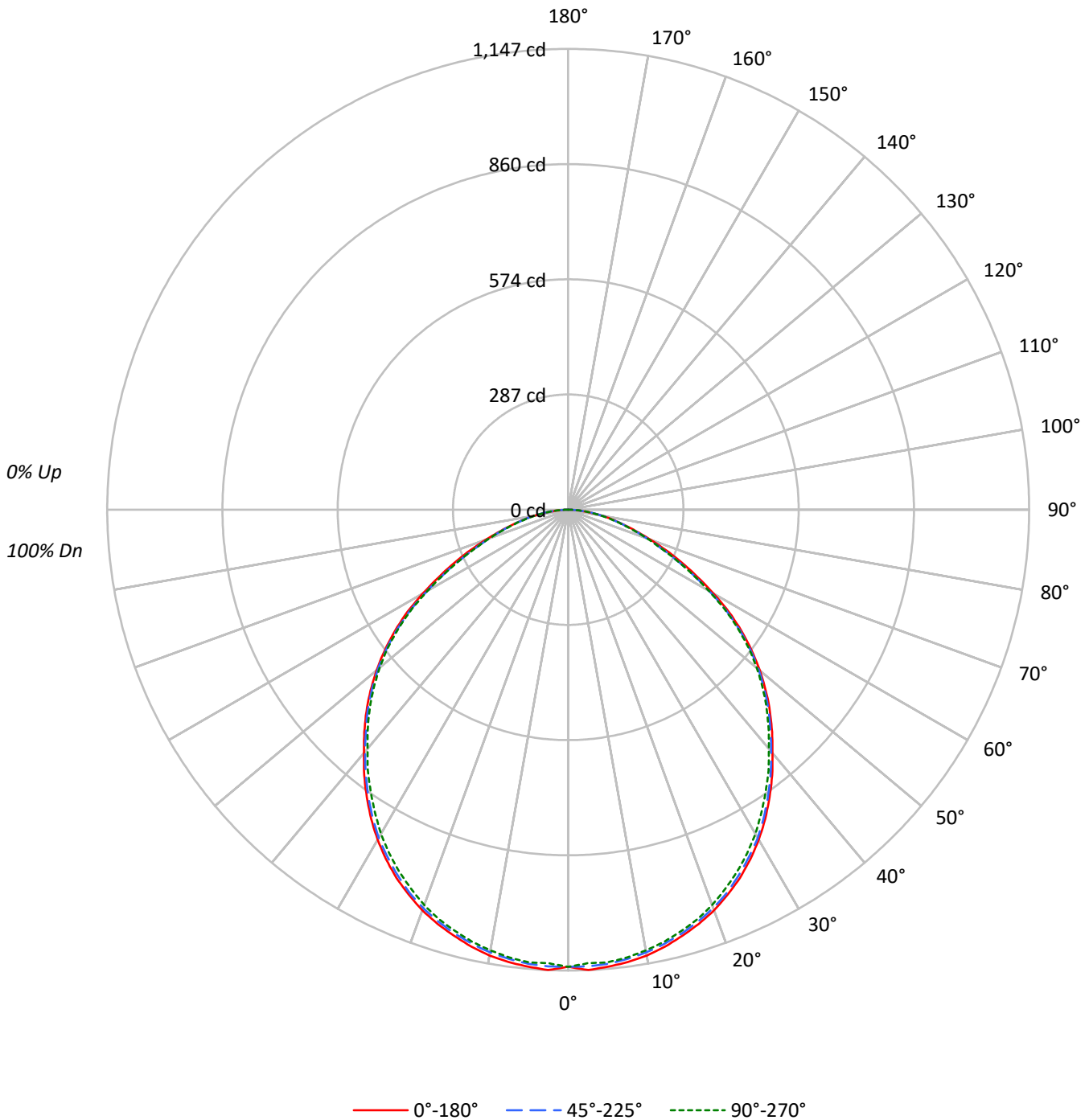
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10953	10953	10953
5°	11034	10966	10928
10°	11015	10937	10888
15°	10942	10883	10823
20°	10870	10809	10727
25°	10741	10666	10560
30°	10542	10486	10353
35°	10266	10196	10066
40°	9937	9874	9763
45°	9667	9599	9503
50°	9319	9259	9169
55°	8837	8720	8653
60°	8045	7814	7775
65°	7087	6791	6768
70°	6119	5866	5866
75°	5267	5193	5118
80°	4646	4701	4591
85°	3634	3966	3966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9667 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.7
10°-20°	307.4	10.6
20°-30°	460.4	15.8
30°-40°	540.0	18.5
40°-50°	541.6	18.6
50°-60°	462.5	15.9
60°-70°	300.6	10.3
70°-80°	150.5	5.2
80°-90°	41.3	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°	875.4	30.1
0°-40°	1415.4	48.6
0°-60°	2419.5	83.1
0°-90°	2911.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1142	1131	1135	1131	1131	109
15°	1098	1087	1092	1088	1086	310
25°	1011	999	1004	995	994	465
35°	874	864	868	858	856	546
45°	710	705	705	698	698	547
55°	526	524	520	516	516	468
65°	311	305	298	296	297	310
75°	142	142	140	139	138	153
85°	33	36	36	36	36	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.7	1137.7	1137.7	1137.7	1137.7
2.5°	1146.7	1134.7	1137.7	1135.7	1129.8
5°	1141.7	1130.8	1134.7	1130.8	1130.8
7.5°	1135.7	1123.8	1127.8	1123.8	1123.8
10°	1126.8	1114.8	1118.8	1114.8	1113.8
12.5°	1113.8	1101.8	1106.8	1101.8	1101.8
15°	1097.8	1086.9	1091.9	1087.9	1085.9
17.5°	1080.9	1068.9	1074.9	1069.9	1068.9
20°	1061.0	1049.0	1055.0	1047.0	1047.0
22.5°	1037.0	1025.1	1032.0	1021.1	1021.1
25°	1011.1	999.1	1004.1	995.1	994.1
27.5°	981.2	969.2	974.2	964.2	964.2
30°	948.3	937.3	943.3	932.3	931.3
32.5°	912.4	902.4	906.4	895.4	894.4
35°	873.5	864.5	867.5	857.5	856.5
37.5°	833.6	823.6	827.6	818.7	818.7
40°	790.7	784.7	785.7	778.8	776.8
42.5°	750.8	743.9	744.9	737.9	737.9
45°	710.0	705.0	705.0	698.0	698.0
47.5°	667.1	663.1	662.1	656.1	656.1
50°	622.2	619.2	618.2	613.2	612.2
52.5°	575.3	574.4	570.4	566.4	566.4
55°	526.5	524.5	519.5	516.5	515.5
57.5°	474.6	470.6	465.7	460.7	461.7
60°	417.8	413.8	405.8	403.8	403.8
62.5°	363.0	358.0	350.0	347.0	349.0
65°	311.1	305.1	298.1	296.2	297.1
67.5°	263.2	257.3	249.3	249.3	248.3
70°	217.4	214.4	208.4	208.4	208.4
72.5°	176.5	175.5	171.5	171.5	170.5
75°	141.6	141.6	139.6	138.6	137.6
77.5°	111.7	111.7	110.7	109.7	107.7
80°	83.8	85.8	84.8	83.8	82.8
82.5°	57.8	59.8	59.8	57.8	57.8
85°	32.9	35.9	35.9	35.9	35.9
87.5°	11.0	15.0	16.0	16.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)