

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: P688897

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688897
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-92765-1-UNV-STD-W-4_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.1 lumens
Efficiency: N/A
Efficacy: 89.3 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

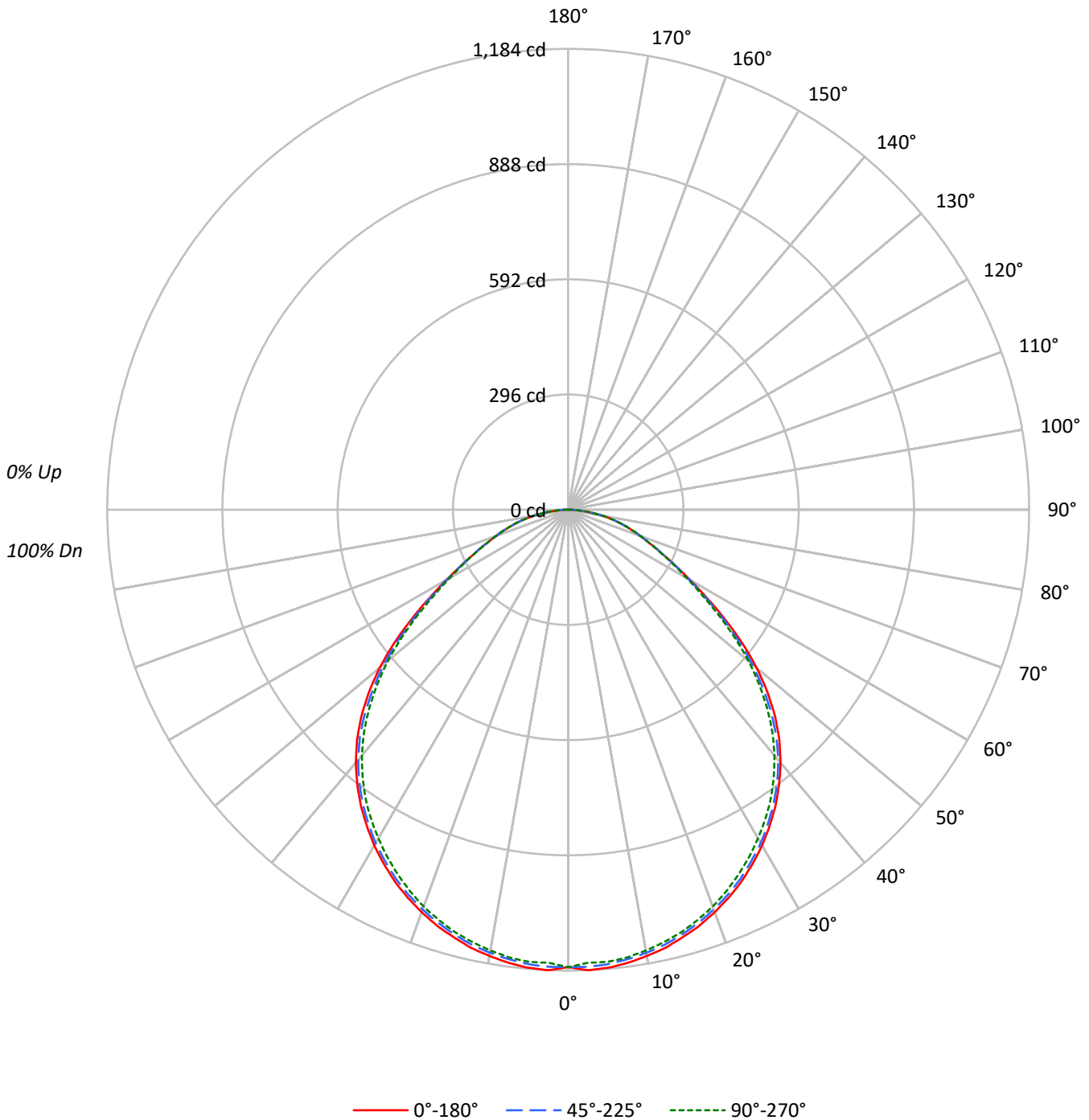
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49					47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43					41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39					37				
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11314	11314	11314
5°	11416	11328	11269
10°	11380	11301	11241
15°	11330	11260	11199
20°	11273	11200	11117
25°	11194	11119	10989
30°	11073	10994	10837
35°	10909	10814	10660
40°	10661	10547	10356
45°	10226	10047	9841
50°	9461	9234	9051
55°	8258	8070	7901
60°	6959	6899	6764
65°	6019	6041	5996
70°	5528	5557	5557
75°	5308	5308	5345
80°	4995	5051	4995
85°	4021	4474	4474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.8
10°-20°	318.1	10.8
20°-30°	479.8	16.3
30°-40°	571.9	19.5
40°-50°	564.1	19.2
50°-60°	430.3	14.6
60°-70°	265.6	9.0
70°-80°	151.3	5.2
80°-90°	45.6	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°	909.2	30.9
0°-40°	1481.0	50.4
0°-60°	2475.5	84.3
0°-90°	2938.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1181	1168	1172	1168	1166	112
15°	1137	1125	1130	1126	1124	321
25°	1054	1041	1047	1036	1034	485
35°	928	917	920	908	907	580
45°	751	741	738	725	723	576
55°	492	484	481	473	471	441
65°	264	262	265	263	263	267
75°	143	143	143	144	144	151
85°	36	38	40	40	40	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.2	1175.2	1175.2	1175.2	1175.2
2.5°	1184.3	1171.2	1175.2	1172.2	1165.1
5°	1181.3	1168.2	1172.2	1168.2	1166.1
7.5°	1174.2	1161.1	1165.1	1161.1	1160.1
10°	1164.1	1152.0	1156.0	1152.0	1149.9
12.5°	1153.0	1139.8	1144.9	1139.8	1137.8
15°	1136.8	1124.6	1129.7	1125.6	1123.6
17.5°	1120.6	1107.4	1112.5	1108.4	1105.4
20°	1100.3	1088.2	1093.2	1086.2	1085.1
22.5°	1078.1	1065.9	1071.0	1060.9	1060.9
25°	1053.8	1040.6	1046.7	1035.5	1034.5
27.5°	1025.4	1013.3	1018.3	1007.2	1006.2
30°	996.1	983.9	989.0	976.8	974.8
32.5°	962.7	951.5	955.6	943.4	942.4
35°	928.2	917.1	920.1	908.0	907.0
37.5°	889.8	879.7	881.7	868.5	867.5
40°	848.3	838.2	839.2	825.0	824.0
42.5°	802.7	792.6	791.6	777.4	776.4
45°	751.1	741.0	737.9	724.8	722.8
47.5°	694.4	684.3	678.2	667.1	666.1
50°	631.7	621.5	616.5	607.4	604.3
52.5°	563.8	553.7	549.7	541.6	538.5
55°	492.0	483.9	480.8	472.7	470.7
57.5°	423.1	417.1	416.0	407.9	406.9
60°	361.4	358.3	358.3	351.3	351.3
62.5°	308.7	306.7	308.7	304.7	303.7
65°	264.2	262.2	265.2	263.2	263.2
67.5°	226.7	226.7	228.8	227.8	227.8
70°	196.4	196.4	197.4	197.4	197.4
72.5°	169.0	168.0	171.1	171.1	170.1
75°	142.7	142.7	142.7	143.7	143.7
77.5°	116.4	116.4	117.4	117.4	116.4
80°	90.1	91.1	91.1	90.1	90.1
82.5°	63.8	64.8	64.8	64.8	63.8
85°	36.4	38.5	40.5	40.5	40.5
87.5°	13.2	17.2	20.2	20.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)