

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: P688663

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 3169.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

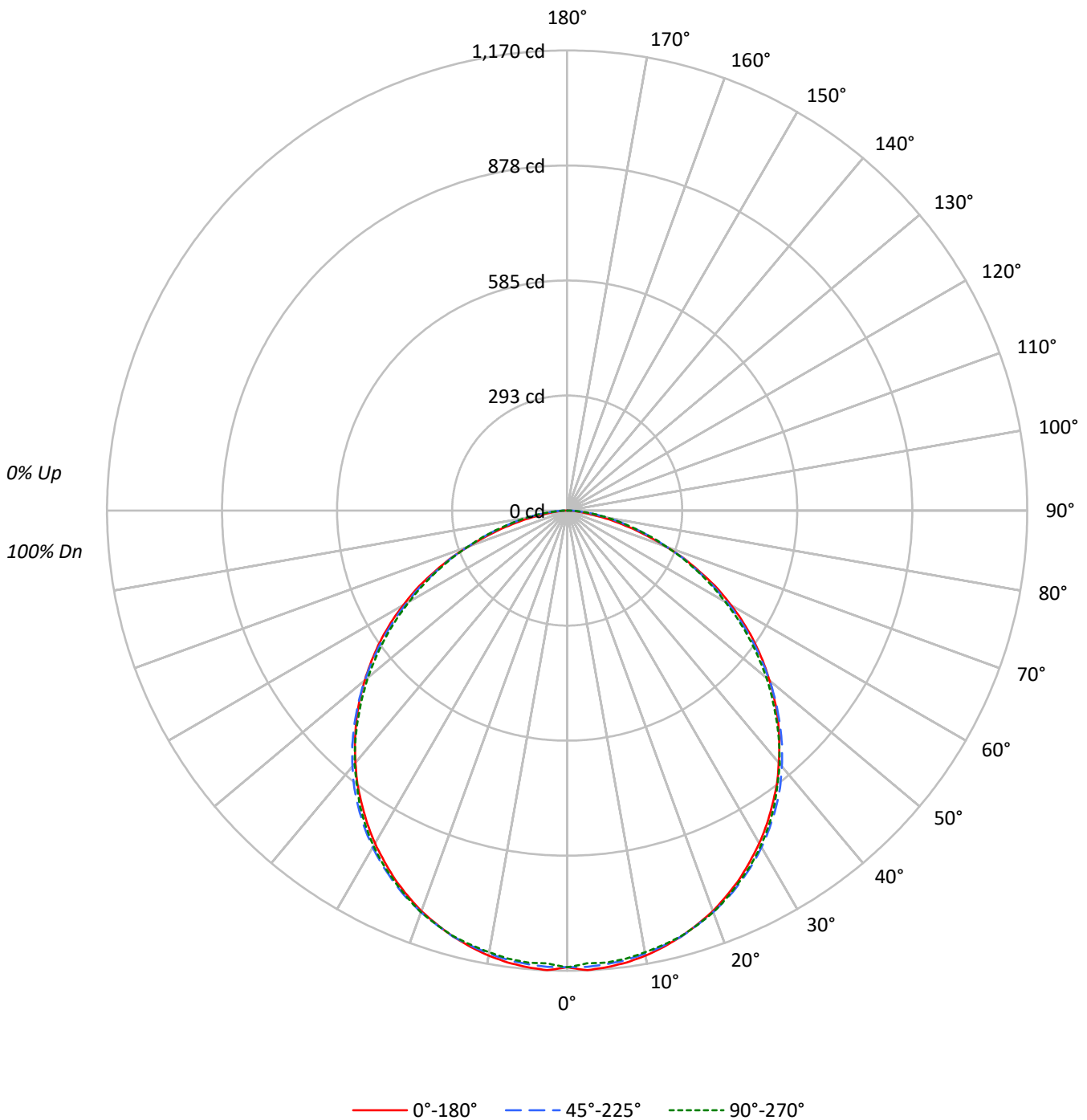
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11177	11177	11177
5°	11262	11188	11147
10°	11233	11182	11149
15°	11175	11175	11164
20°	11102	11134	11134
25°	10997	11076	11042
30°	10863	10994	10947
35°	10701	10865	10789
40°	10524	10672	10564
45°	10333	10406	10245
50°	10063	10063	9902
55°	9744	9618	9473
60°	9273	9086	8942
65°	8570	8399	8326
70°	7504	7563	7535
75°	6037	6677	6718
80°	4291	5661	5722
85°	2607	4750	4750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	3.5
10°-20°	315.5	10.0
20°-30°	477.7	15.1
30°-40°	572.8	18.1
40°-50°	584.0	18.4
50°-60°	509.8	16.1
60°-70°	364.9	11.5
70°-80°	187.4	5.9
80°-90°	46.9	1.5
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°	903.1	28.5
0°-40°	1476.0	46.6
0°-60°	2569.7	81.1
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1165	1153	1158	1154	1153	111
15°	1121	1112	1121	1121	1120	316
25°	1035	1028	1043	1040	1040	477
35°	910	908	924	918	918	570
45°	759	757	764	755	752	585
55°	580	573	573	564	564	518
65°	376	368	369	366	366	373
75°	162	170	180	181	181	175
85°	24	36	43	44	43	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	1169.6	1156.7	1161.0	1157.7	1152.4
5°	1165.3	1153.4	1157.7	1154.5	1153.4
7.5°	1158.8	1147.0	1152.4	1150.2	1149.1
10°	1149.1	1137.3	1143.8	1141.6	1140.5
12.5°	1136.2	1125.5	1133.0	1130.9	1130.9
15°	1121.2	1111.5	1121.2	1121.2	1120.1
17.5°	1102.9	1094.3	1104.0	1105.1	1104.0
20°	1083.6	1073.9	1086.8	1085.7	1086.8
22.5°	1059.9	1052.4	1066.4	1063.1	1064.2
25°	1035.2	1027.7	1042.7	1039.5	1039.5
27.5°	1006.2	1000.8	1016.9	1013.7	1013.7
30°	977.2	971.8	989.0	984.7	984.7
32.5°	944.9	941.7	957.8	952.4	952.4
35°	910.5	908.4	924.5	918.0	918.0
37.5°	876.1	874.0	889.0	881.5	878.3
40°	837.4	836.3	849.2	840.6	840.6
42.5°	798.7	797.6	808.4	797.6	797.6
45°	758.9	756.8	764.3	754.6	752.5
47.5°	715.9	713.8	719.2	708.4	707.3
50°	671.9	669.7	671.9	662.2	661.1
52.5°	626.7	622.4	622.4	612.7	612.7
55°	580.5	573.0	573.0	564.4	564.4
57.5°	532.1	522.4	523.5	516.0	514.9
60°	481.6	470.8	471.9	465.5	464.4
62.5°	432.1	419.2	422.5	414.9	414.9
65°	376.2	367.6	368.7	365.5	365.5
67.5°	324.6	316.0	321.4	318.2	318.2
70°	266.6	261.2	268.7	268.7	267.7
72.5°	212.8	213.9	223.6	223.6	224.7
75°	162.3	169.8	179.5	180.6	180.6
77.5°	116.1	129.0	139.7	139.7	139.7
80°	77.4	92.4	102.1	104.3	103.2
82.5°	46.2	62.3	69.9	72.0	70.9
85°	23.6	36.5	43.0	44.1	43.0
87.5°	8.6	18.3	21.5	21.5	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)