

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: P688669

Luminaire Tested: SQ4R-PC3-075D-93050-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688669
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-93050-1-UNV-STD-W-4_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3165.4 lumens
Efficiency: N/A
Efficacy: 96.5 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

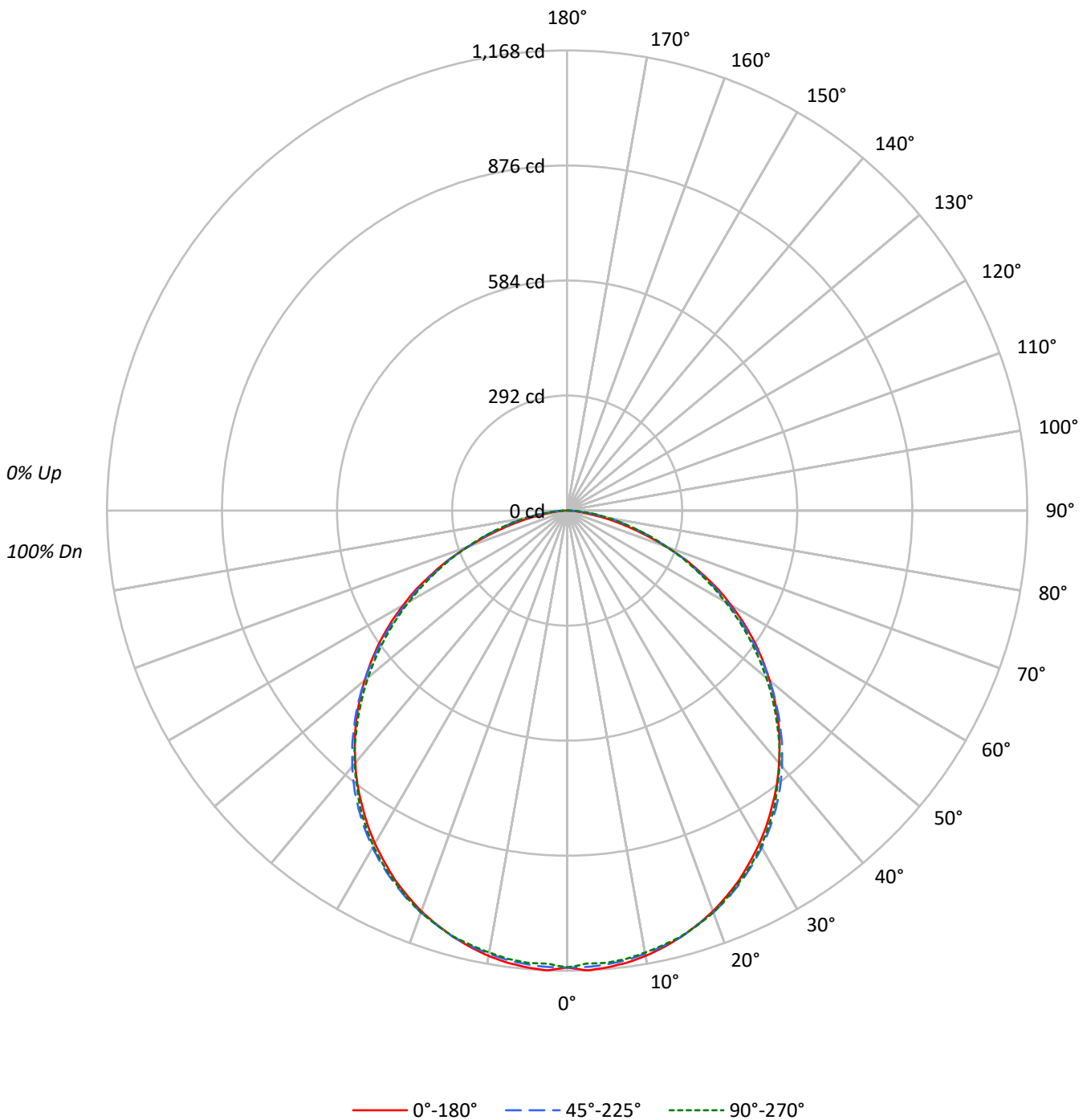
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11164	11164	11164
5°	11248	11176	11134
10°	11221	11168	11137
15°	11162	11162	11151
20°	11088	11121	11121
25°	10984	11063	11029
30°	10850	10981	10933
35°	10689	10853	10777
40°	10512	10660	10553
45°	10322	10394	10233
50°	10051	10051	9890
55°	9732	9606	9462
60°	9262	9077	8932
65°	8561	8390	8317
70°	7496	7555	7527
75°	6030	6669	6710
80°	4286	5655	5716
85°	2607	4739	4739

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10394 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.5
10°-20°	315.1	10.0
20°-30°	477.2	15.1
30°-40°	572.2	18.1
40°-50°	583.4	18.4
50°-60°	509.2	16.1
60°-70°	364.5	11.5
70°-80°	187.2	5.9
80°-90°	46.8	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°	902.1	28.5
0°-40°	1474.2	46.6
0°-60°	2566.8	81.1
0°-90°	3165.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3165.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1164	1152	1156	1153	1152	111
15°	1120	1110	1120	1120	1119	316
25°	1034	1026	1042	1038	1038	476
35°	910	907	923	917	917	569
45°	758	756	763	754	752	584
55°	580	572	572	564	564	517
65°	376	367	368	365	365	372
75°	162	170	179	180	180	174
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°	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1168.2	1155.3	1159.6	1156.4	1151.0
5°	1163.9	1152.1	1156.4	1153.2	1152.1
7.5°	1157.5	1145.7	1151.0	1148.9	1147.8
10°	1147.8	1136.0	1142.4	1140.3	1139.2
12.5°	1134.9	1124.2	1131.7	1129.6	1129.6
15°	1119.9	1110.2	1119.9	1119.9	1118.8
17.5°	1101.6	1093.1	1102.7	1103.8	1102.7
20°	1082.3	1072.7	1085.5	1084.5	1085.5
22.5°	1058.7	1051.2	1065.1	1061.9	1063.0
25°	1034.0	1026.5	1041.5	1038.3	1038.3
27.5°	1005.0	999.6	1015.7	1012.5	1012.5
30°	976.0	970.7	987.8	983.5	983.5
32.5°	943.8	940.6	956.7	951.3	951.3
35°	909.5	907.3	923.4	917.0	917.0
37.5°	875.1	872.9	888.0	880.5	877.2
40°	836.4	835.4	848.2	839.7	839.7
42.5°	797.8	796.7	807.4	796.7	796.7
45°	758.1	755.9	763.4	753.8	751.6
47.5°	715.1	713.0	718.3	707.6	706.5
50°	671.1	668.9	671.1	661.4	660.3
52.5°	626.0	621.7	621.7	612.0	612.0
55°	579.8	572.3	572.3	563.7	563.7
57.5°	531.5	521.8	522.9	515.4	514.3
60°	481.0	470.3	471.4	464.9	463.9
62.5°	431.6	418.8	422.0	414.5	414.5
65°	375.8	367.2	368.3	365.1	365.1
67.5°	324.3	315.7	321.0	317.8	317.8
70°	266.3	260.9	268.4	268.4	267.4
72.5°	212.6	213.7	223.3	223.3	224.4
75°	162.1	169.6	179.3	180.4	180.4
77.5°	116.0	128.8	139.6	139.6	139.6
80°	77.3	92.3	102.0	104.2	103.1
82.5°	46.2	62.3	69.8	71.9	70.9
85°	23.6	36.5	42.9	44.0	42.9
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)