

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: P688665

Luminaire Tested: SQ4R-PC3-075D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688665
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_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 2974.6 lumens
Efficiency: N/A
Efficacy: 90.4 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

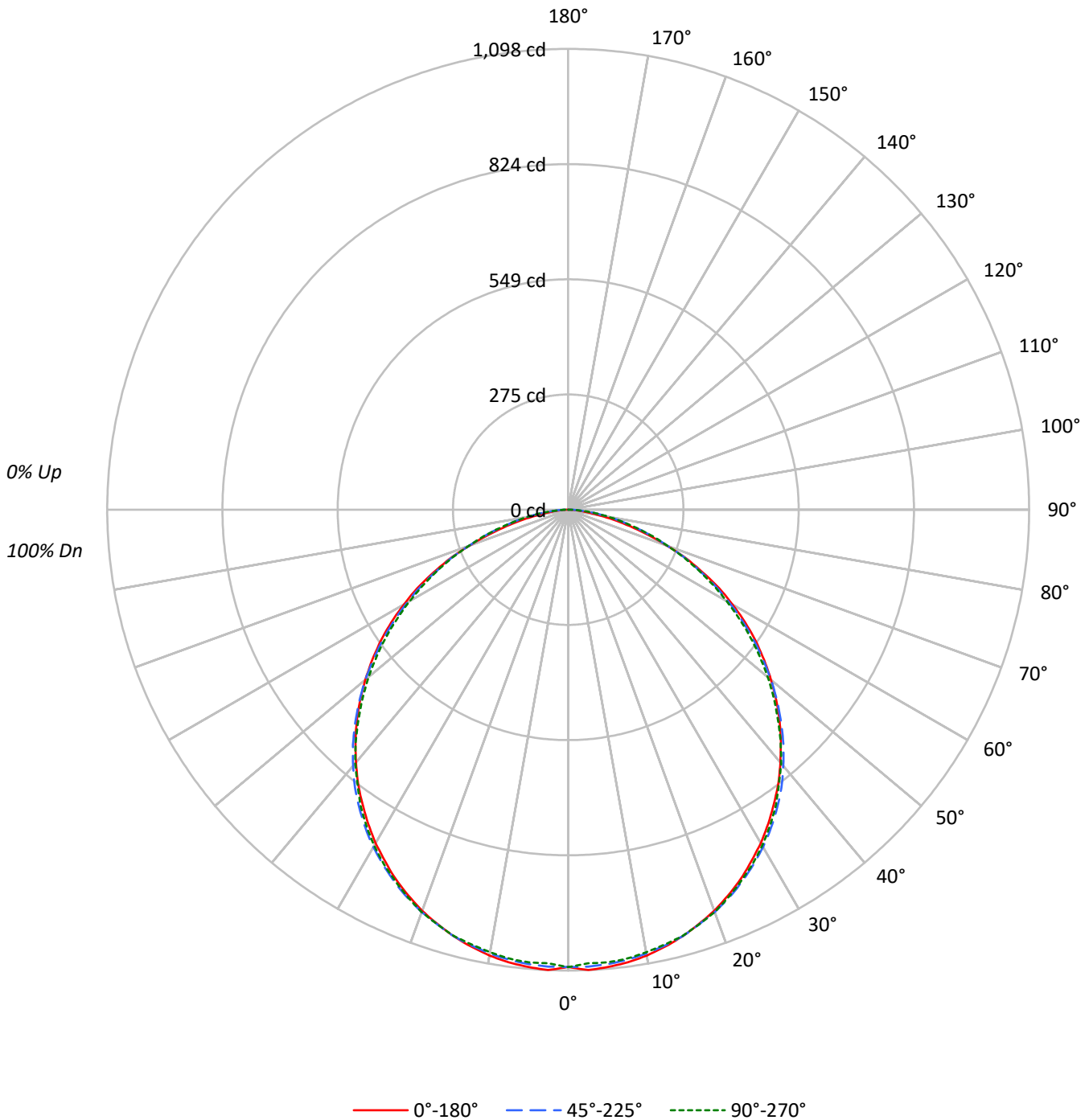
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10491	10491	10491
5°	10570	10502	10462
10°	10544	10495	10465
15°	10489	10489	10479
20°	10420	10451	10451
25°	10322	10396	10364
30°	10196	10320	10274
35°	10044	10198	10127
40°	9878	10018	9916
45°	9698	9767	9616
50°	9445	9445	9294
55°	9146	9027	8891
60°	8703	8528	8393
65°	8044	7884	7816
70°	7043	7099	7071
75°	5669	6268	6305
80°	4025	5317	5372
85°	2452	4463	4463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9767 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.5
10°-20°	296.1	10.0
20°-30°	448.4	15.1
30°-40°	537.7	18.1
40°-50°	548.2	18.4
50°-60°	478.5	16.1
60°-70°	342.6	11.5
70°-80°	176.0	5.9
80°-90°	44.0	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°	847.7	28.5
0°-40°	1385.4	46.6
0°-60°	2412.0	81.1
0°-90°	2974.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2974.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1094	1083	1087	1084	1083	104
15°	1052	1043	1052	1052	1051	297
25°	972	965	979	976	976	447
35°	855	853	868	862	862	535
45°	712	710	717	708	706	549
55°	545	538	538	530	530	486
65°	353	345	346	343	343	350
75°	152	159	168	170	170	164
85°	22	34	40	41	40	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.7	1089.7	1089.7	1089.7	1089.7
2.5°	1097.8	1085.7	1089.7	1086.7	1081.6
5°	1093.7	1082.6	1086.7	1083.7	1082.6
7.5°	1087.7	1076.6	1081.6	1079.6	1078.6
10°	1078.6	1067.5	1073.6	1071.5	1070.5
12.5°	1066.5	1056.4	1063.5	1061.5	1061.5
15°	1052.4	1043.3	1052.4	1052.4	1051.4
17.5°	1035.2	1027.2	1036.2	1037.2	1036.2
20°	1017.1	1008.0	1020.1	1019.1	1020.1
22.5°	994.9	987.8	1000.9	997.9	998.9
25°	971.7	964.6	978.7	975.7	975.7
27.5°	944.4	939.4	954.5	951.5	951.5
30°	917.2	912.1	928.3	924.2	924.2
32.5°	886.9	883.9	899.0	894.0	894.0
35°	854.6	852.6	867.7	861.7	861.7
37.5°	822.3	820.3	834.4	827.4	824.3
40°	786.0	785.0	797.1	789.0	789.0
42.5°	749.7	748.7	758.8	748.7	748.7
45°	712.3	710.3	717.4	708.3	706.3
47.5°	672.0	670.0	675.0	664.9	663.9
50°	630.6	628.6	630.6	621.5	620.5
52.5°	588.2	584.2	584.2	575.1	575.1
55°	544.9	537.8	537.8	529.7	529.7
57.5°	499.4	490.4	491.4	484.3	483.3
60°	452.0	441.9	442.9	436.9	435.9
62.5°	405.6	393.5	396.5	389.5	389.5
65°	353.1	345.1	346.1	343.1	343.1
67.5°	304.7	296.6	301.7	298.7	298.7
70°	250.2	245.2	252.2	252.2	251.2
72.5°	199.8	200.8	209.9	209.9	210.9
75°	152.4	159.4	168.5	169.5	169.5
77.5°	109.0	121.1	131.2	131.2	131.2
80°	72.6	86.8	95.9	97.9	96.9
82.5°	43.4	58.5	65.6	67.6	66.6
85°	22.2	34.3	40.4	41.4	40.4
87.5°	8.1	17.2	20.2	20.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)