

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: P688661

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688661
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

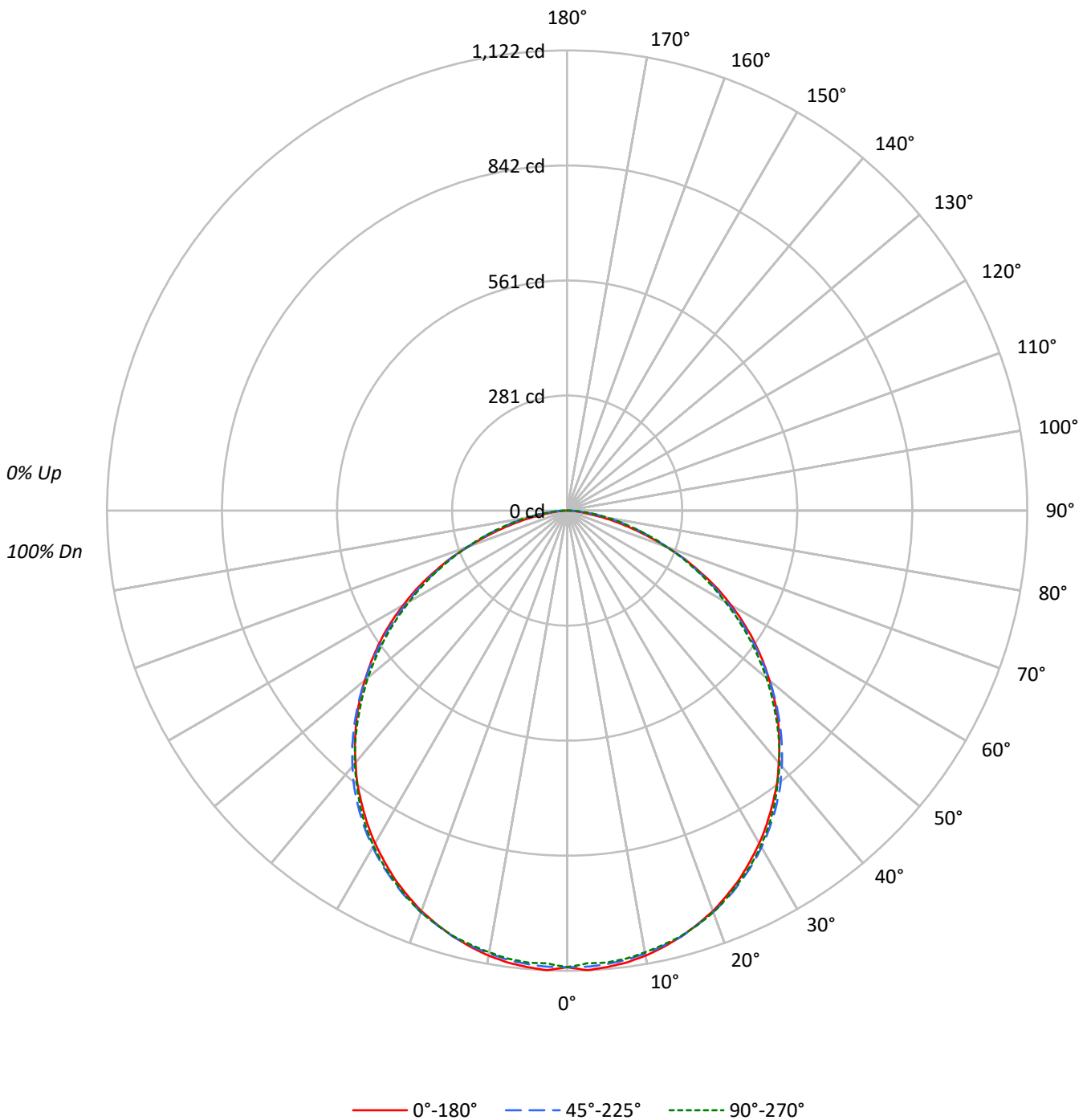
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10718	10718	10718
5°	10799	10729	10689
10°	10773	10722	10692
15°	10716	10716	10706
20°	10646	10678	10678
25°	10545	10622	10589
30°	10416	10543	10497
35°	10261	10419	10346
40°	10092	10235	10131
45°	9909	9979	9825
50°	9650	9650	9496
55°	9344	9222	9084
60°	8892	8713	8574
65°	8219	8055	7984
70°	7195	7254	7226
75°	5792	6405	6443
80°	4114	5428	5489
85°	2507	4551	4551

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.5
10°-20°	302.5	10.0
20°-30°	458.1	15.1
30°-40°	549.3	18.1
40°-50°	560.1	18.4
50°-60°	488.8	16.1
60°-70°	350.0	11.5
70°-80°	179.8	5.9
80°-90°	45.0	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°	866.1	28.5
0°-40°	1415.4	46.6
0°-60°	2464.3	81.1
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1117	1106	1110	1107	1106	106
15°	1075	1066	1075	1075	1074	303
25°	993	986	1000	997	997	457
35°	873	871	886	880	880	546
45°	728	726	733	724	722	561
55°	557	549	549	541	541	497
65°	361	352	354	350	350	357
75°	156	163	172	173	173	167
85°	23	35	41	42	41	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.3	1113.3	1113.3	1113.3	1113.3
2.5°	1121.6	1109.2	1113.3	1110.2	1105.1
5°	1117.4	1106.1	1110.2	1107.1	1106.1
7.5°	1111.2	1099.9	1105.1	1103.0	1102.0
10°	1102.0	1090.6	1096.8	1094.8	1093.7
12.5°	1089.6	1079.3	1086.5	1084.4	1084.4
15°	1075.2	1065.9	1075.2	1075.2	1074.1
17.5°	1057.6	1049.4	1058.7	1059.7	1058.7
20°	1039.1	1029.8	1042.2	1041.2	1042.2
22.5°	1016.4	1009.2	1022.6	1019.5	1020.5
25°	992.7	985.5	999.9	996.8	996.8
27.5°	964.9	959.7	975.2	972.1	972.1
30°	937.0	931.9	948.4	944.3	944.3
32.5°	906.1	903.0	918.5	913.3	913.3
35°	873.1	871.1	886.5	880.3	880.3
37.5°	840.1	838.1	852.5	845.3	842.2
40°	803.0	802.0	814.4	806.1	806.1
42.5°	765.9	764.9	775.2	764.9	764.9
45°	727.8	725.7	732.9	723.7	721.6
47.5°	686.5	684.5	689.6	679.3	678.3
50°	644.3	642.2	644.3	635.0	634.0
52.5°	601.0	596.9	596.9	587.6	587.6
55°	556.7	549.4	549.4	541.2	541.2
57.5°	510.3	501.0	502.0	494.8	493.8
60°	461.8	451.5	452.5	446.4	445.3
62.5°	414.4	402.0	405.1	397.9	397.9
65°	360.8	352.5	353.6	350.5	350.5
67.5°	311.3	303.1	308.2	305.1	305.1
70°	255.6	250.5	257.7	257.7	256.7
72.5°	204.1	205.1	214.4	214.4	215.4
75°	155.7	162.9	172.2	173.2	173.2
77.5°	111.3	123.7	134.0	134.0	134.0
80°	74.2	88.7	97.9	100.0	99.0
82.5°	44.3	59.8	67.0	69.1	68.0
85°	22.7	35.0	41.2	42.3	41.2
87.5°	8.2	17.5	20.6	20.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)