

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: P688667

Luminaire Tested: SQ4R-PC3-075D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688667
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_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3103.8 lumens
Efficiency: N/A
Efficacy: 94.1 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

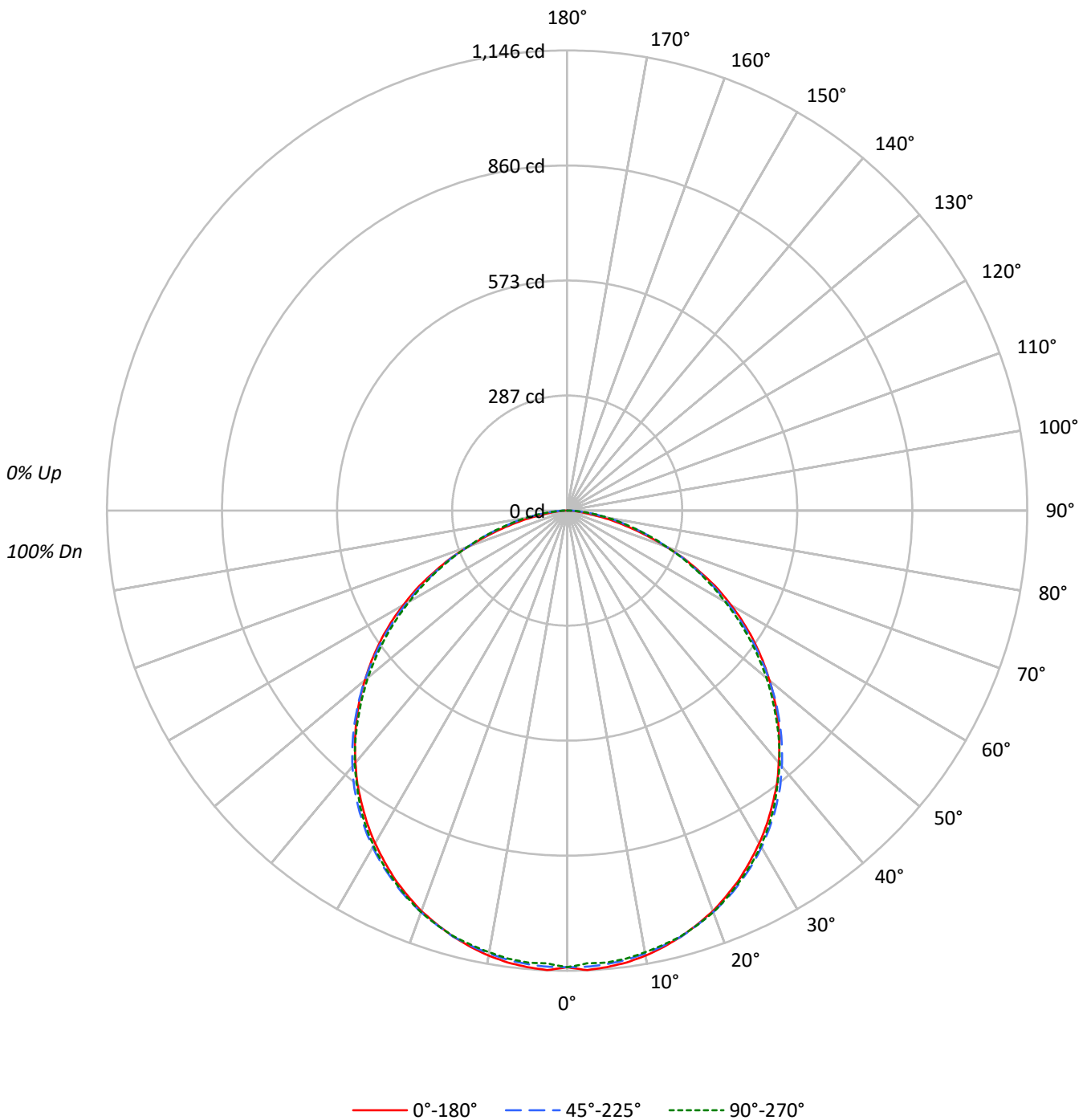
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10947	10947	10947
5°	11030	10958	10918
10°	11003	10951	10921
15°	10945	10945	10935
20°	10873	10905	10905
25°	10770	10849	10815
30°	10639	10768	10721
35°	10481	10642	10567
40°	10308	10454	10347
45°	10120	10192	10034
50°	9855	9855	9698
55°	9542	9420	9277
60°	9082	8900	8757
65°	8395	8226	8155
70°	7350	7409	7381
75°	5914	6539	6580
80°	4202	5544	5605
85°	2563	4650	4650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.5
10°-20°	309.0	10.0
20°-30°	467.9	15.1
30°-40°	561.0	18.1
40°-50°	572.0	18.4
50°-60°	499.3	16.1
60°-70°	357.4	11.5
70°-80°	183.6	5.9
80°-90°	45.9	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°	884.5	28.5
0°-40°	1445.6	46.6
0°-60°	2516.8	81.1
0°-90°	3103.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1141	1130	1134	1131	1130	108
15°	1098	1089	1098	1098	1097	310
25°	1014	1006	1021	1018	1018	467
35°	892	890	906	899	899	558
45°	743	741	749	739	737	573
55°	568	561	561	553	553	507
65°	368	360	361	358	358	365
75°	159	166	176	177	177	171
85°	23	36	42	43	42	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.1	1137.1	1137.1	1137.1	1137.1
2.5°	1145.5	1132.9	1137.1	1133.9	1128.7
5°	1141.3	1129.7	1133.9	1130.8	1129.7
7.5°	1135.0	1123.4	1128.7	1126.5	1125.5
10°	1125.5	1113.9	1120.2	1118.1	1117.1
12.5°	1112.9	1102.3	1109.7	1107.6	1107.6
15°	1098.1	1088.6	1098.1	1098.1	1097.1
17.5°	1080.2	1071.8	1081.3	1082.3	1081.3
20°	1061.3	1051.8	1064.4	1063.4	1064.4
22.5°	1038.1	1030.7	1044.4	1041.3	1042.3
25°	1013.9	1006.5	1021.3	1018.1	1018.1
27.5°	985.5	980.2	996.0	992.8	992.8
30°	957.0	951.8	968.6	964.4	964.4
32.5°	925.5	922.3	938.1	932.8	932.8
35°	891.8	889.7	905.5	899.1	899.1
37.5°	858.1	856.0	870.7	863.3	860.2
40°	820.2	819.1	831.8	823.3	823.3
42.5°	782.3	781.2	791.7	781.2	781.2
45°	743.3	741.2	748.6	739.1	737.0
47.5°	701.2	699.1	704.4	693.8	692.8
50°	658.0	655.9	658.0	648.6	647.5
52.5°	613.8	609.6	609.6	600.1	600.1
55°	568.5	561.2	561.2	552.7	552.7
57.5°	521.2	511.7	512.7	505.4	504.3
60°	471.7	461.1	462.2	455.9	454.8
62.5°	423.2	410.6	413.8	406.4	406.4
65°	368.5	360.1	361.1	358.0	358.0
67.5°	318.0	309.5	314.8	311.6	311.6
70°	261.1	255.8	263.2	263.2	262.2
72.5°	208.5	209.5	219.0	219.0	220.0
75°	159.0	166.4	175.8	176.9	176.9
77.5°	113.7	126.3	136.9	136.9	136.9
80°	75.8	90.5	100.0	102.1	101.1
82.5°	45.3	61.1	68.4	70.5	69.5
85°	23.2	35.8	42.1	43.2	42.1
87.5°	8.4	17.9	21.1	21.1	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)